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# BULLETIN OF DUKE UNIVERSITY

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*The School of Forestry*

1949



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DURHAM, NORTH CAROLINA

## ANNUAL BULLETINS

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BULLETIN  
OF  
DUKE UNIVERSITY

THE SCHOOL OF FORESTRY



ANNOUNCEMENTS FOR 1949-50

DURHAM, NORTH CAROLINA

1949

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## SCHOOL OF FORESTRY CALENDAR

1949

- |       |    |   |
|-------|----|---|
| June  | 13 | Monday—Registration of students for summer work in forestry.  |
| June  | 14 | Tuesday—Field work in Plane Surveying (C.E. S110) begins.     |
| July  | 5  | Tuesday—Field work in Forest Surveying (For. S150) begins.    |
| Aug.  | 4  | Thursday—Field work in Forest Mensuration (For. S151) begins. |
| Sept. | 20 | Tuesday—Registration of students in the School of Forestry.   |
| Sept. | 21 | Wednesday—Registration of students in the School of Forestry. |
| Sept. | 22 | Thursday—Instruction begins in the School of Forestry.        |
| Nov.  | 24 | Thursday—Thanksgiving Day: a holiday.                         |
| Dec.  | 11 | Sunday—Founders Day.  |
| Dec.  | 20 | Tuesday, 5:00 P.M.—Christmas recess begins.                   |

1950

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|-------|----|--|
| Jan.  | 4  | Wednesday, 8:00 A.M.—Instruction is resumed.   |
| Jan.  | 18 | Wednesday—School of Forestry mid-year examinations begin.  |
| Jan.  | 28 | Saturday—School of Forestry mid-year examinations end.   |
| Jan.  | 30 | Monday—Registration of students in the School of Forestry.                                       |
| Feb.  | 1  | Wednesday—Second semester begins.  |
| March | 25 | Saturday, 12:30 P.M.—Spring vacation begins. School of Forestry Coastal Plain field work begins. |
| April | 3  | Monday, 8:00 A.M.—Instruction is resumed.  |
| April | 10 | Monday, 8:00 A.M.—Coastal Plain field work ends.   |
| April | 15 | Last day for submitting Doctor of Forestry theses.   |
| May   | 15 | Last day for submitting Master of Forestry theses.   |
| May   | 22 | Monday—School of Forestry final examinations begin.  |
| June  | 1  | Thursday—School of Forestry final examinations end.  |
| June  | 3  | Saturday—Commencement opens.   |
| June  | 4  | Sunday—Commencement sermon.  |
| June  | 5  | Monday—Commencement address and graduating exercises.  |



## OFFICERS OF ADMINISTRATION

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FLOWERS, ROBERT LEE, A.M., LL.D. <i>Chancellor of the University</i>	West Campus
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C. F. KORSTIAN, *Dean*

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\* Died, September 14, 1948.



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WATERS, MRS. HARRIET H. <i>Statistical Clerk</i>	Morreene Dairy Road

\* Absent on sabbatical leave, second semester, 1948-49.

\*\* Resigned, effective December 31, 1948.

\*\*\* Appointment effective February 1, 1949.

# FORESTRY IN DUKE UNIVERSITY

## GENERAL STATEMENT

Duke University, located at Durham, North Carolina, comprises Trinity College, the Woman's College, the College of Engineering, the Graduate School of Arts and Sciences, the Divinity School, and the professional schools of Forestry, Law, Medicine, and Nursing. Nearly every state of the Union and several nations are represented in the student body of more than five thousand, not including the enrollment in the Summer Session.

The University goes back in its origin to 1838, when Union Institute was founded in Randolph County by the Methodists and Friends. In 1851 the institution became Normal College, one of the first schools in America for the training of teachers. In 1859 the name was changed to Trinity College and so continued until 1924, when the College became a part of Duke University.

By virtue of an indenture of trust, executed December 11, 1924, by James Buchanan Duke, a great benefaction was placed at the disposal of humanity by, providing for hospitalization, church work in rural communities, and education. The principal feature of the educational provision was the creation of Duke University.

The University occupies two campuses. The Woman's College campus, with its 108 acres, was formerly the campus of Trinity College. About a mile to the west are the new units of the University. The new campus, totaling 467 acres, also known as the West Campus, was first occupied in September, 1930.

Forestry in Duke University began early in 1931, when, through placing the Duke Forest under intensive management for forestry purposes, a substantial beginning was made in laying the foundation for educational work and research in forestry.

An academic-forestry curriculum, designed for students intent upon pursuing the study of forestry, particularly as a profession after graduation, was organized in Trinity College of Duke University in 1932 (see *Announcement on Undergraduate Instruction in Duke University*). This four-year course of study provides only for instruction in fundamental and auxiliary subjects basic to a proper understanding of the highly specialized work in technical forestry. Duke University offers no professional degree in technical forestry available to undergraduates.

Training in technical forestry leading to the professional degrees, Master of Forestry and Doctor of Forestry, is offered in the School of Forestry, and is open to all graduates of the academic-forestry curriculum in Trinity College and to graduates of recognized scientific schools or colleges, universities, and professional schools of forestry.

Duke University is also prepared to offer, through the Graduate School of Arts and Sciences, graduate work in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy de-

grees. This work is available to graduates of schools of forestry of recognized standing, and to college or university graduates holding the Bachelor's degree with their major work in appropriate scientific subjects. Undergraduate subjects which the college student, who does not have forestry training but who is contemplating work toward either degree in forestry, should take in preparation for this work may be illustrated as follows: At least two full years in botany, including general morphology or anatomy, the taxonomy, physiology, and ecology of plants; at least one course in zoology or general biology; courses in chemistry, physics, geology, economics, mathematics; and at least two years of French or German.

Several staff members of the Southeastern Forest Experiment Station are engaged in co-operative research projects in the Duke Forest. Specialists from this station and other prominent members of the U. S. Forest Service and representatives of forest and wood-using industries give occasional scheduled lectures at the School.

### EDUCATIONAL FACILITIES

The School of Forestry is located partly in Few Quadrangle and partly in the Biology Building along with the Departments of Botany and Zoology. The administrative offices, two classrooms, and the forest mensuration and statistical laboratory are in Few Quadrangle, while other laboratories and offices and the School Library are in the Biology Building. The Biology Building contains, in addition to classrooms, laboratories, and offices, a library, three refrigerated rooms, an incineration room, a workshop, and eight dark-rooms. The School is provided with instruments and tools for use in both field and laboratory work in silvics, silviculture, and forest mensuration. Modern surveying instruments and accessory equipment are available for work in forest surveying.

Laboratories for work in wood anatomy and properties are provided with microtechnique and photomicrographic instruments, wood-working machinery, a Henderson dry kiln, and a 50,000-pound Olsen Universal timber-testing machine, in addition to a glue and plywood laboratory. A modern forest soils laboratory equipped for physical and chemical studies is available. In the field of seasoning and preservation of wood a commercial-sized, single-compartment dry kiln and a fully equipped experimental pressure treating cylinder are available for instruction and research.

Facilities are also available for advanced work in plant physiology, plant anatomy, plant taxonomy, genetics, plant ecology, plant pathology, and the several branches of zoology. Many rooms in the Biology Building are equipped with vacuum, compressed air, direct and alternating electric current, gas, and running water.

The School of Forestry Library contains a growing collection of material on forestry, soils, and closely related subjects. It includes important books and periodicals in English and in French, German, and certain other foreign languages. The Library is well provided with American material, including Federal and State documents and reports.



Over 150 periodicals and serials of importance in forestry and related fields are received by subscription or exchange.

Greenhouses, connected to the Biology Building through a soil-storage and work room, provide adequate space for experimental work.

A nursery has been established by the University for joint use of the Sarah P. Duke Floral Garden, the Botany Department, and the School of Forestry. The forestry section of this nursery is used mainly for the growing of planting stock for the Arboretum and trees needed for research or other special purposes.

West Virginia Pulp and Paper Company has made available to Duke University a field headquarters for work in forests of the South Atlantic Coastal Plain located 18 miles northwest of Summerville, South Carolina. This company has extensive forest holdings under close supervision of a staff of technical foresters in South Carolina and permits access to its lands for instruction and research in forestry and allied fields. This headquarters camp with modern facilities for as many as 45 men is used as a base primarily for utilization work each spring and for special work in silviculture. The quarters may be available at other times for students and faculty members of the Duke School of Forestry working on special problems or doing advanced work in any of the fields of forestry concerned with coastal plain problems. The establishment of this headquarters camp in the coastal plain region makes it possible for the School of Forestry to provide instruction and conduct research in this important forest area in which many privately owned forests as well as public forests are intensively managed for the production and utilization of a wide range of forest products. The Southern Railway Demonstration Forest is within easy reach of this center and will also be available for work, particularly with longleaf pine.

The School sponsors occasional lectures on forestry and conservation by speakers of national reputation.

An active Forestry Club is maintained as a student organization to bring the members of the School and students in the undergraduate academic-forestry curriculum into closer contact and to afford opportunities for extracurricular activities not otherwise available.

#### **FOREST INDUSTRY TRAINING PLAN**

The School of Forestry and the Southern Pine Association have initiated a joint plan for training graduate foresters in the Southern lumber industry. Graduates of the School will be placed, with the assistance of the Association Forester, with companies desiring to participate, for a period of approximately one year during which time the men will work in a variety of capacities under competent supervision.

The plan is designed better to equip young foresters for careers in forest industries and to make them more useful employees capable of developing executive capacities. The gap between academic education and practical training will be bridged under the operation of the plan for the mutual benefit of the men and their prospective employers.

Detailed information about this program can be obtained from the School of Forestry or from the Southern Pine Association, New Orleans, Louisiana.

### THE DUKE FOREST

The Duke Forest, located in Durham and Orange counties, North Carolina, consists of five main units: namely, the Durham, New Hope Creek, Hillsboro, Eno, and Blackwood divisions. Early in the development of Duke University it was recognized that the possession of such an area offered an unusual opportunity for the development of educational work in forestry.

Situated on the lower Piedmont plateau at elevations ranging from 280 to 650 feet, and composed of second-growth shortleaf and loblolly pines, oak, gum, hickory, maple, yellow poplar, ash, and other hardwoods, the Forest is representative of the various types of timber growth found throughout the region. Over a hundred different species of trees are found within or near the Forest. The land is rolling and there is relatively little rock outcrop, swamp, or other land of low productivity for timber growing. The total area of the Forest proper, exclusive of the University campus, is approximately eight thousand acres.

In developing the Duke Forest the following objectives are being emphasized:

1. Demonstration of the various methods of timber growing, silvicultural treatment, and forest management applicable to the region.

2. Development as an experimental forest for research in the problems of timber growing and in the sciences basic thereto. In spite of the present timber situation and the accompanying economic ills, the technical and scientific knowledge required to handle forest crops efficiently on a permanent basis is still largely lacking. The Duke Forest affords a place where studies may be carried on to augment this knowledge for the large region of which the local forest and soil conditions are representative.

3. To serve as an outdoor laboratory where field work can be carried on by forestry students under the guidance of the Forestry Faculty. One of the most difficult problems in forestry education is to bring the students into contact with the realities of professional activities. With all operations in the Forest, both routine and research, recorded annually, it is possible for a qualified man to get in a short time a degree of practical knowledge or technical expertness which only an organized forest can provide.

The Duke Forest is particularly well located to serve as a field laboratory, since most of it is adjacent and easily accessible to the University campus. In fact, the Durham Division practically surrounds the West Campus, which was laid out in one corner of the Forest. A paved State highway runs lengthwise through the Durham Division, and several good roads cross the Forest. About fifteen miles of improved woods roads make all parts of the Forest readily accessible. A five-minute walk will take one well into the Forest, and any part of the Durham or New

Hope Creek divisions can be reached by automobile in from ten to twenty minutes. At few other places in America can be found provision for forestry training and research which includes the necessary forest literally at the door of a large university with its instructional, laboratory, and library facilities.

Approximately 1,400 acres of the Forest was open land, which had been under cultivation prior to the establishment of the Forest. Such of the open land as was not restocking naturally to forest trees was planted. Arbitrarily by mixing species and varying the spacing between the trees in the plantations, the foundation was laid for future research into many perplexing problems, such as species relationships and requirements, the most desirable spacing and species to use in this region, and the survival and relative rates of growth of the different species of trees. To date approximately 1,100 acres of such plantations have been established. Pulpwood thinnings on a commercial basis are now being made in a number of the older pine plantations.

A large number of permanent sample plots, ranging in size from one-tenth acre to over one acre, have been laid out in the Forest to study various problems. The plots are distributed through all the forest types, and range in purpose from studies of the effects of various silvicultural practices to studies of rates of growth and yields of the different timber types. Accurate records are kept on all this work, which will provide excellent material for student research. In the future many of these plots can also be used to demonstrate desirable forestry practices.

The development of the Forest as a demonstration of practical forest management is well advanced. Forest type and timber stand maps are available for each of four divisions except for recently acquired areas. A detailed soils map for the entire area is being prepared. Except for very recent acquisitions, each division has been subdivided into permanent compartments, and plans for the silvicultural treatment of each stand and working group have been formulated. The second 10-year inventory of the Forest resources has been completed and the results of management practices during the first decade are being assembled and will soon be available.

Cutting operations within the limits of annual growth are being carried on, and as markets for definite products are developed or expanded, such operations will be increased. To date, approximately 1,000 acres in the pine types have been thinned. These thinnings serve the dual purpose of contributing to the operation of the Forest as a going business and of demonstrating sound forestry practices. An efficient fire protection organization has been developed in co-operation with the State and Federal governments, and forest fire losses are being held to a minimum. In managing the Forest, public recreation activities are recognized. Several recreation areas have been established, and over fifteen thousand picnickers, hikers, and horseback riders use the area annually. The Durham and New Hope Creek divisions of the Forest, together with several hundred acres of neighboring privately owned land, are incorporated in an Auxiliary State Game Refuge to give the necessary protection which will



ultimately result in an increased amount of game in the surrounding territory. Records are being maintained of all activities in the Forest, and these records will become increasingly useful as they are improved as a result of further experience and research. With the diversification and expansion of activities now going on, students have an opportunity to study an operating forest in all its phases and to obtain a grasp of the proper balance between theory and practice.

The Forest is admirably located for research in forest soils. An unusually large number of different soil conditions occur in the Forest because of the diversity of parent rock, topography, and past land culture. Major soil differences are due to the nature of the parent material which includes the basic rock of the Carolina Slate formation, granites, Triassic sedimentary rock, and many types of basic intrusives.

An exceptionally good opportunity exists for the conduct of forest research by graduate students due to the wide range in forest types, ages, and soil conditions within the Forest and its proximity to the laboratories, greenhouses, and other scientific equipment and library facilities of the University. Research is being conducted on special problems, particularly in the fields of silvics, forest soils, forest-tree physiology, forest entomology, forest pathology, silviculture, forest management, and wood technology. The Forest is used not only for research in forestry but also for research in forest biology by members of allied departments.

### THE ARBORETUM

Of outstanding value in the teaching of both forestry and botany in the future is the provision for the development of an arboretum. In their annual meeting on June 4, 1934, the Board of Trustees of Duke University, upon the recommendation of their Forestry Committee, voted to set aside permanently an area of over three hundred acres in the Forest to be used for arboretum purposes. The area lies adjacent to the main University campus immediately across the road from the Chapel.

Through the generosity of the late W. W. Flowers, of New York, a member of the Class of 1894 and a Trustee of the University, it has been possible to develop preliminary plans and to make a number of plantings. This is naturally a long-time project, and many years will elapse before the Arboretum will be most useful and most attractive. The University Trustees' Committee on Forestry in its report to the Board refers to the Arboretum as follows:

"The Arboretum should serve as a station for the study of trees and woody plants as individuals and in small groups in their scientific relations, economic properties, and cultural characteristics, requirements, and possibilities. It should render an economic service by acting as a research laboratory where trees and shrubs can be studied from the viewpoint of a fuller utilization of their commercial possibilities. It should render a cultural service by serving as a center where foresters, landscape architects, nurserymen, gardeners, and the general public may increase their knowledge of indigenous trees and shrubs and where they may become acquainted with the foreign species that can be grown here.

Within the University the Arboretum will supply living specimens and material for several branches of botany and forestry."

The development of the Arboretum will proceed along these lines as rapidly as available funds and planting stock will permit.

### **FELLOWSHIPS, SCHOLARSHIPS, AND GRADUATE ASSISTANTSHIPS IN FORESTRY**

A number of fellowships, scholarships, and research assistantships are available to men who offer promise of becoming leaders in the forestry profession. These will be awarded for high character and marked scholastic ability as judged by education, experience, and personal references.

Holders of the awards will pay tuition and such additional fees as are regularly required.

The awards are of three classes with stipends and special conditions as follows:

(1) Fellowships of \$600 to \$1,000 each. Each recipient must have previously completed work equivalent to that required at Duke University for a Master's degree with major in forestry or in a discipline basic to forestry. He will devote his time to an approved program of study and research in any of the branches of forestry. He is expected to become a candidate for the degree of Doctor of Forestry or Doctor of Philosophy.

(2) Scholarships of \$250 to \$700 each. Each recipient will normally devote his time to an approved program of study leading to the degree of Master of Forestry or Master of Arts with a major in forestry.

Holders of fellowships and scholarships will be expected to do a limited amount of assisting.

(3) Graduate assistantships of \$1,000 each. Each recipient will devote half-time to research or other work of the School of Forestry. He will be permitted to enroll for not more than 20 semester hours in a school year on a program of study, or study and research, leading to the degree of Master of Forestry, Master of Arts, Doctor of Forestry, or Doctor of Philosophy.

Two Union Bag & Paper Corporation forestry fellowships of \$800 each are available for graduate study leading to the degrees of Master of Forestry or Doctor of Forestry with major work in the fields of harvesting and marketing of forest products, silviculture, or forest economics, or combination majors in two of the above fields, for men interested in private forestry careers. Preference will be given to forestry graduates of southern institutions for one of the awards. College graduates not having degrees in forestry must have completed at least one year of forestry in a recognized school of forestry to be eligible for these fellowships. The Woodlands Division of the Union Bag & Paper Corporation with headquarters at Savannah, Georgia, has agreed to employ the recipients of the awards during the summer preceding their enrollment in the Duke School of Forestry to provide opportunity for contact with private forestry activities and to assemble material for their theses, should they desire to avail themselves of this opportunity. A fund is available each year for expenses incurred in the collection and analysis of thesis data and for

other expenses in connection with the fellowships. This fund is disbursed by the School of Forestry only as needed for essential expenses.

The following arrangements are common to all fellowships, scholarships and research assistantships in forestry:

(1) Each applicant must have received a Bachelor's degree from an acceptable professional school of forestry or must be a graduate of a recognized college or university. If an applicant is not a graduate of a school of forestry, he must have had major work in botany or soil science and in the allied basic sciences. Each applicant must show reasonably high scholarship. Preference will be given to men who have already obtained technical or professional training in forestry.

(2) It is highly desirable that each applicant state as specifically as possible the field in which he wishes to study. The definite selection of a major field of work—one that is specific in purpose and involves training both in fundamentals and in technique—is very helpful to the Committee on Awards.

(3) Application blanks for fellowships, scholarships, and research assistantships may be obtained by writing to the Dean of the School of Forestry, Duke University, Durham, North Carolina. When the blank has been filled out by the applicant, it should be returned to the above address, and an *official transcript of record* showing college or university credits must accompany it or be forwarded promptly. The application and transcript must be filed not later than March 1 for consideration for the following academic year. In case vacancies occur, applications submitted on a later date may be considered.

### REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY

The following general requirements of the School of Forestry apply to candidates for the Master of Forestry degree:

Admission to the School of Forestry presupposes that the applicant is either a graduate of a scientific school, college, or university of high standing, but without professional training in forestry; or that he is a graduate of a professional school of forestry of recognized standing. He will present not less than four years of credit of collegiate grade with at least as many quality points as hours.<sup>1</sup>

An applicant with no professional training in forestry will present a certified transcript of his academic record showing that he has had conferred upon him a degree in arts, science, or engineering; and that he has satisfactorily completed undergraduate work in minimum amount as follows:

One year of botany, including the morphology, physiology, and identification of plants.

One year each of English composition and of chemistry.

One course each in physics and in the principles of economics.

Mathematics, through college algebra and trigonometry.

<sup>1</sup> Grades for each hour of college credit and also for credit earned in the School of Forestry are valued in quality points as follows: "A," 3 points; "B," 2 points; "C," 1 point; "D," no points; and "F," no credit and —1 point.



It is urged that an applicant without professional training in forestry present additional credits in the above subjects and in one or more of the following subjects: soils, geology, mineralogy, petrology, climatology, surveying, languages (particularly German and French), sociology, political science, philosophy, psychology, and zoology.

An applicant who is a graduate of a professional school of forestry of recognized standing will present a certified transcript of scholastic record showing the award of a degree. Before registering for the first semester of residence, such applicants will be required to select the branch or branches of forestry in which they wish to concentrate the major part of their work and to prepare their proposed programs in conference with the appropriate faculty adviser.

Students must make application for admission in advance of the opening of the school year. Those students entering without acceptable courses in plane surveying, forest surveying, and forest mensuration must take the twelve weeks of work in these subjects in the Summer Session, and are required to submit their applications prior to May 1. Students entering with advanced standing in surveying and forest mensuration should make application before September 1. Application blanks will be sent upon request made to the Dean of the School of Forestry.

### **REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY**

The degree of Master of Forestry (M.F.) is conferred upon students who have satisfactorily completed two years of study in technical forestry and one term of twelve weeks' work in plane surveying, forest surveying, and forest mensuration in the Summer Session. In addition to the Summer Session work a total of not less than sixty semester hours' credit is required for the M.F. degree, of which at least fifty-five shall be obtained in the School of Forestry. Each student must obtain at least as many quality points as semester hours' credit under the quality-point system described in footnote 1 of the preceding section.

Field studies of typical timber-harvesting, manufacturing, and other utilization operations in the South Atlantic Coastal Plain are conducted from the School's field headquarters during a two-week period in the spring semester as part of the work required of students registered in Forest Products Industries (Forestry 212). Other students may be permitted or advised to take this work for which one semester hour of credit may be earned by registering for it in Forestry 212A. A similar period of field work in silviculture and forest management in the Coastal Plain is available to students, who may register for it by special arrangement.

No student may take less than fifteen or more than eighteen hours in any one semester without special permission of the School of Forestry Faculty. The following work will be required of all candidates for the M.F. degree:

## SUMMER SESSION

	S.H.
Plane Surveying (C.E. S110) .....	3
Forest Surveying (F. S150) .....	5
Forest Mensuration (F. S151) .....	4

## FIRST YEAR

<i>First Semester</i>	S.H.	<i>Second Semester</i>	S.H.
Harvesting Forest Products (F. 211) .....	3	Forest Products Industries (F. 212) .....	3
Forest Entomology (F. 231) .....	3	Forest Pathology (F. 224) .....	3
Sampling Methods (F. 251) .....	2	Properties of Wood (F. 258) .....	3
Dendrology (F. 253) .....	3	Silvics (F. 264) .....	3
Forest Soils (F. 261) .....	3	Forest Economics (F. 278) .....	3
Elective .....			

## SECOND YEAR

	S.H.		S.H.
Silviculture (F. 265) .....	3	Forest Valuation (F. 282) .....	3
Forest Management (F. 281) .....	3	Thesis .....	
Thesis .....		Electives .....	
Electives .....			

Each candidate is required to file in the office of the Dean of the School of Forestry on or before May 15 three copies of a thesis, type-written and bound in accordance with regulations set forth by the Faculty. The thesis shall be based upon an original study made in the field, laboratory, or library.

Work of equivalent grade done in residence at recognized schools of forestry may, with the approval of the Faculty, be accepted as credit toward the M.F. degree. A minimum of one year's residence is required at Duke University. Students who have had satisfactory undergraduate training in forestry may, with the approval of the Faculty, elect to devote the major portion of their time to research under the supervision of one or more members of the Faculty and prepare a more comprehensive thesis than is required of students entering the School without previous work in forestry. Students in the School of Forestry may take in allied departments of the University as electives certain courses approved by the Faculty.

## REQUIREMENTS FOR THE DEGREE OF DOCTOR OF FORESTRY

### THE DEGREE

The degree of Doctor of Forestry (D.F.) is a professional and research degree, involving both advanced study and research. It is based upon evidence of high attainments in a special branch of forestry knowledge or in the broad field of forestry, including the production of a thesis which is the result of original work and which is a distinct contribution to knowledge in the field of forestry.

A student who plans to enter upon a program of work leading to the degree of Doctor of Forestry should consult or enter into correspondence

with the Dean of the School of Forestry. He will then be advised as to the possibility of obtaining the necessary instruction and supervision of work in the fields desired.

### RESIDENCE

The normal period of resident graduate study, following satisfaction of the general requirements for admission to the Duke School of Forestry, is a minimum of two academic years after the student has obtained the graduate professional degree of Master of Forestry, or its equivalent. At least one of these two years of graduate study must be spent in actual residence at Duke University. With the approval of the Faculty of the School of Forestry work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Doctor of Forestry degree. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, research station, or institute. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may be required to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

Credit for one year of work done in regular terms of the Summer Session at Duke University may be given with the approval of the School of Forestry Faculty. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

### APPLICATION FOR CANDIDACY

No student will be admitted as a candidate for the degree of Doctor of Forestry until he has obtained the professional graduate degree of Master of Forestry or its equivalent, either at Duke University or at a professional school of forestry of recognized standing. A student desiring to become a candidate for the Doctor of Forestry degree is ordinarily required to file with the Dean of the School of Forestry, at the beginning of his graduate work toward this degree, a formal application indicating in which field and under what professor he proposes to carry on research. A committee of the Faculty will then be appointed to supervise the student's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major field have been satisfied, the chairman of the committee will report the fact in writing to the Dean of the School of Forestry. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the School of Forestry Faculty, the application for recognition as a candidate for the Doctor of

Forestry degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

### PROGRAM OF STUDY

The program of study of a candidate for the Doctor of Forestry degree will be arranged after consultation with the committee provided for in the preceding section and is subject to the approval of the Dean and Faculty of the School of Forestry. The student must select a major field and one or two minor related fields. Both major and minor may be selected in different branches of forestry or the minor may be taken in a related field in some other school or department of Duke University.

### FOREIGN LANGUAGES

A reading knowledge of two foreign languages is required. One language shall be either French or German, and the other optional to fit the requirements of the student's problem. No student may come up for his preliminary examination before having satisfied the language requirements for the Doctor's degree. Foreign language examinations are conducted by the appropriate language department or, in special cases, by a qualified member of the Faculty of Duke University.

### PRELIMINARY EXAMINATION

Toward the end of the first full year of graduate work for the Doctor of Forestry degree (or in special cases early in the second year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be written. A student who passes the examination will be recognized as a candidate for the Doctor of Forestry degree. A student's major and minor subjects will ordinarily be included in this preliminary examination.

If a student fails on his first examination, he may make a second attempt after six months upon recommendation of his committee and approval by the Dean of the School of Forestry. Two failures on this examination make the student ineligible to continue work toward the Doctor of Forestry degree at Duke University.

### THESIS

The thesis for the Doctor of Forestry degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of the School of Forestry on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree. The subject must receive the written approval of the professor under whom the thesis is being written and of the Dean of the School of Forestry. The thesis must be completed to the satisfaction of the major professor. Four typewritten copies in approved form must be deposited with the Dean of the School of Forestry on or before April 15 if the student desires to be examined on the thesis in the same academic year. The title page must be approved by the Dean of the School of Forestry. Two of the copies, the original and a carbon copy, are placed in the School



of Forestry library, one copy goes to the major adviser, and one is returned to the student.

The candidate's thesis must be published either in its original form or in a modified form approved by the Dean of the School of Forestry and the committee in charge of the candidate's work. In its published form the title page should include this statement: "A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Forestry in the School of Forestry of Duke University."

Before the degree is conferred the candidate must deposit with the Treasurer of the University a special thesis fee of fifty dollars in cash. If the thesis is published in a form satisfactory to the Dean of the School of Forestry and to the professor under whom it is written within a period of three years from the date the degree is granted the fee of fifty dollars is returned. Ten copies of the published thesis must be deposited in the office of the Dean of the School of Forestry as provided by regulations of the Faculty of this school.

### FINAL EXAMINATION

The final examination will be on the thesis and on related subject matter and will be oral. Approximately one year must elapse between the date of the preliminary examination and the final examination, except in special cases approved by the School of Forestry Faculty. Two failures on this examination make a student ineligible to continue work toward the Doctor of Forestry degree at Duke University. The second examination may be given only upon the recommendation of the professor in charge of the thesis and the approval of the Dean of the School of Forestry.

### GRADING

Members of the Faculty are expected to report grades of graduate students to the School of Forestry Office not later than February 15 for the first semester and not later than June 15 for the second semester on the cards provided for that purpose. An average grade of "B" or better will be required for all work, beyond that for the degree of Master of Forestry, that is to be credited toward the Doctor of Forestry degree. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in which his standing is generally satisfactory. Unless a report is made within one year that the work has been satisfactorily completed, all credit will be lost.

## FORESTRY IN THE GRADUATE SCHOOL

Graduate work toward the Master of Arts and Doctor of Philosophy degrees in the more scientific branches of forestry is available to adequately prepared students at Duke University. This work is given through the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty.

The following special conditions will influence the acceptance of students for graduate study in forestry: The student must have received a degree from a professional school of forestry of recognized standing or from an approved college or university. Graduates of professional schools of forestry must also have had adequate training in liberal arts and sciences, approximating 86 semester hours, before being admitted to candidacy for the Master of Arts or Doctor of Philosophy degree. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them.

The Forestry Staff will determine whether a student is qualified to pursue graduate study in any of the special fields of forestry in which work is available.

The Master of Arts and Doctor of Philosophy degrees are attained through scientific work rather than technical or professional training in forestry. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, forest entomology, silvics, forest soils, forest mensuration, forest management, and forest economics, except that a major cannot be taken in forest management. A student upon registration chooses a field of study which may lie in two or more departments. The members of the Graduate School Faculty best qualified in that field are named as the student's advisory committee, regardless of the department of which they are members. This committee will advise the student in the planning and conduct of his work and will evaluate it when completed.

A reading knowledge of French and German must be acquired early in the course of graduate study in forestry because much of the forestry literature of the world is written in or has summaries in these languages. For the Ph.D. degree the language requirement must be met before the preliminary examination is taken and usually before the preparation of the thesis is begun.

The length of time required for a student to obtain the Master of Arts and Doctor of Philosophy degrees in forestry is determined by the character of his previous work and by the quality of his work in the Graduate School. Upon the recommendation of the Forestry Staff and with the approval of the Council on Graduate Instruction, work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be

accepted toward a Ph.D. degree, but at least the last year of the first two years of graduate study must be spent in actual residence at Duke University. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, or research station.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

The field of study may include advanced work in allied subjects as well as advanced work in forestry. The students should have covered, however, most of the basic subjects prior to entering the Graduate School. The required advanced work will depend upon the student's previous training and the special field of study selected. Before beginning his work a student must obtain approval of his proposed program of study, including the plans for the research for his thesis. Courses of study must be correlated with each other and with the thesis research.

uate School of Arts and Sciences and on the general requirements for

For further information on requirements for admission to the Graduate Master of Arts and Doctor of Philosophy degrees reference should be made to the *Bulletin of the Graduate School of Arts and Sciences*.

## COURSES AND SUBJECTS OF INSTRUCTION

*With the exception of the summer session courses, odd-numbered courses are offered in the autumn semester, and even-numbered courses are offered in the spring semester.*

### IN THE SUMMER SESSION

**C.E. S110. Plane Surveying.**—A special section of C.E. 61 intended for students in Forestry and others of advanced standing. *Three weeks, nine hours a day, beginning June 14, 1949. 3 s.h.* ASSISTANT PROFESSOR WILLIAMS

**S150. Forest Surveying.**—Application of plane surveying to forest problems; practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. Prerequisites: Civil Engineering, S110, plane surveying, or equivalent. *Five weeks, eight hours a day, beginning July 5, 1949. 5 s.h. (w)* PROFESSOR COILE

**S151. Forest Mensuration.**—Field studies in methods of measuring content and growth of trees and forest stands; practice in timber estimating, log scaling, use of mensurational instruments, and collection of basic data. *Four weeks, eight hours a day, beginning August 4, 1949. 4 s.h. (w)*

PROFESSOR SCHUMACHER

### FOR SENIORS AND GRADUATES

**211. Harvesting Forest Products.**—Methods of harvesting and transporting to utilization plants all products obtained from forests, including saw logs, pulpwood, poles, ties, stave and veneer bolts, naval stores, distillation wood, and other commercial commodities, with emphasis on application of methods best adapted to managed forests in important forest regions of North America and consideration of costs. *3 s.h. (w)*

PROFESSOR WACKERMAN

**212. Forest Products Industries.**—Preparation, manufacture, and use of tree products for all purposes including lumber, paper, naval stores, veneer, cooperage, boxes, distillation, and other specialized products with emphasis on methods of manufacturing and kinds of wood required for various commodities. Inspection of typical forest operations and forest products manufacturing plants in the South during two weeks of spring semester. *3 s.h. (w)*

PROFESSOR WACKERMAN

**213. Seasoning and Preservation of Wood.**—Principles of seasoning lumber and other forest products by air drying and kiln drying, types of kilns and their operation; principles, methods, and materials used in treating wood to increase its durability. *3 s.h. (w)*

PROFESSOR WACKERMAN

**214. Marketing Forest Products.**—Methods of selling and distributing timber, lumber, and other forest products in domestic and foreign trade; transportation methods; promotional activities of trade associations; competition between producing regions for markets and problems arising from the development of wood substitutes. Prerequisites: Forestry 211 and 212, or equivalents. *3 s.h. (w)*

PROFESSOR WACKERMAN

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. *3 or 4 s.h. (w)*

PROFESSOR WOLF

**231. Forest Entomology.**—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. *3 s.h. (w)*

PROFESSOR BEAL



**232. Forest Products Entomology.**—Special reference to insects infesting forest products; recognition, character of damage, and control of species causing injury to manufactured wood products. Prerequisite: Forestry 231 or equivalent. 3 s.h. (w)  
PROFESSOR BEAL

**236. Forest Game Management.**—Characteristics and life histories of forest animals; interrelationship between animals and forests; management of forest animals for revenue; control of noxious species. 3 s.h. (w)  
PROFESSOR BEAL

**251. Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. 2 s.h. (w) PROFESSOR SCHUMACHER

**252. Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. 3 s.h. (w)  
PROFESSOR SCHUMACHER

**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 3 s.h. (w)  
PROFESSOR HARRAR

**255. Bonding of Wood.**—Preparation of veneers and lumber for bonding; types and characteristics of modern adhesives used in the manufacture of plywood and laminates; cold and hot pressing procedures; use of electronic heating; bag molding techniques; manufacture and properties of transmuted wood; inspection and testing procedures. Prerequisite: Forestry 258 or equivalent. 3 s.h. (w)  
PROFESSOR HARRAR

**257. Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific methods in forest research. 5 s.h. (w)  
PROFESSOR SCHUMACHER

**258. Properties of Wood.**—Anatomical, chemical, and non-mechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. 3 s.h. (w)  
PROFESSOR HARRAR

**260. Timber Mechanics.**—Comprehensive study of mechanical properties of wood and factors affecting its strength; strength-moisture relationships; standard methods of timber testing and application of strength data in development of working stresses; use of graphic statics in analysis of stress in wooden structures. Prerequisites: Physics 1 and Forestry 258, or equivalents. 3 s.h. (w)  
PROFESSOR HARRAR

**261. Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in humid climates; morphological, physical, and chemical properties of soils in relation to growth of trees; effect of forests on soils. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology, mineralogy, petrology, and analytical chemistry are also desirable. 3 s.h. (w)  
PROFESSOR COILE

**264. Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. (w)  
PROFESSOR KORSTIAN

**265. Theory and Practice of Silviculture.**—Principles governing natural regeneration and treatment of forest stands and their applications to main commercial forest species, types, and regions of temperate North America; reproduction methods, intermediate cuttings, cultural operations, and silvicultural plans. Field practice includes marking timber for various kinds of cuttings, cultural treatments, preparation of plans for silvicultural treatment of forests, and study of intensively managed forests. Prerequisite: Forestry 264 or equivalent. 3 s.h. (w) PROFESSOR KORSTIAN

**266. Forest Seeding and Planting.**—Place of artificial regeneration in practice of forestry; reforestation surveys and plans; collection, extraction, cleaning, testing, and storage of forest tree seeds; direct seeding; nursery practice; forest planting. 2 s.h. (w) PROFESSOR KORSTIAN

**273. Forest Protection.**—Fundamental principles of forest protection; protection against atmospheric agencies, injurious plants, insects, domestic animals, and wildlife; causes of forest fires and their prevention; presuppression activities; fire suppression; fire control costs and standards; fire plans. 2 s.h. (w) ASSISTANT PROFESSOR RUDOLPH

**277. Forestry Policy.**—Critical study of forestry movement and development of a forestry policy, particularly in United States; brief résumé of forestry in important foreign countries; public land laws of United States; development of Federal and State forestry; forestry laws. 2 s.h. (w) PROFESSOR THOMSON

**278. Economics of Forestry.**—Principles of forest economics. Contributions of land, labor, and capital to income from forestry enterprises; costs of production and maintenance of forest income; forest resources and requirements in products and services; consumption and prices of forest products; forest ownership problems; forest appraisal and comparative valuation; forest fire insurance and forestry credit; forest taxation; timber marketing problems; effect of business cycles and long-term trends upon demand and prices of forest products. Prerequisite: at least one course in the principles of economics. 3 s.h. (w) PROFESSOR THOMSON

**279. Economic Analysis in Forestry.**—Economic analysis as an aid in the solution of forestry problems. Applications peculiar to forestry in consideration of land and economic rent, labor and wages, capital and interest, risk, and flow of income; use of marginal cost and comparative valuation in testing efficiency of forestry operations and in solving problems of land use and forest ownership; analysis of timber prices and their relation to the business cycle; critical analysis of suggested solutions of the problems of forest taxation, forest insurance, and forestry credit. Open only to graduates of recognized schools of forestry. 3 s.h. (w) PROFESSOR THOMSON

**281. Forest Management.**—Principles of organizing forest properties for systematic management including surveys, inventories, subdivisions, and preparation of management plans for control of operations; principles of forest regulation, actual and normal forests, rotations, cutting cycles, and methods of regulating the cut for sustained yield. Prerequisites: Forestry S150, S151, and 251, or equivalents. 3 s.h. (w) ASSISTANT PROFESSOR RUDOLPH

**282. Forest Valuation.**—Principles involved in appraising value of forests as business enterprises; valuation of land and timber, soil rent and forest rent theories, cost values, market values and capital values, profit, and rate earned; appraisal of stumpage values and damage appraisals; financial aspects of sustained yield management compared with destructive logging. Prerequisite: Forestry 281 or equivalent. Not open to students who have previously had a course in forest valuation. 3 s.h. (w) PROFESSOR THOMSON

211A to 282A. **Special Studies in Forestry.**—Work on the same level as the foregoing Senior-Graduate courses to meet the needs of individual students. Credits and hours to be arranged.

THE STAFF

#### FOR GRADUATES

301-302. **Advanced Studies in Forestry.**—Credits to be arranged. To meet individual needs of graduate students in the following branches of forestry:

- a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

- b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.

PROFESSOR COILE

- c. **Silviculture.**—Prerequisite: Forestry 265 or equivalent.

PROFESSOR KORSTIAN

- d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.

ASSISTANT PROFESSOR RUDOLPH

- e. **Forest Economics.**—Prerequisite: Forestry 278 or 279 or equivalent.

PROFESSOR THOMSON

- f. **Properties of Wood.**—Prerequisites: Forestry 258 and 260, or equivalents.

PROFESSOR HARRAR

- g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents.

PROFESSOR SCHUMACHER

- h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent.

PROFESSOR BEAL

- i. **Forest Utilization.**—Prerequisites: Forestry 211 and 212, or equivalents.

PROFESSOR WACKERMAN

- j. **Dendrology.**—Prerequisite: Forestry 253 or equivalent.

PROFESSOR HARRAR

311. **Advanced Forest Utilization.**—Analysis of the principles of determining the cost of and returns from harvesting timber for various products and other uses of forests; study of factors governing the relation of tree size to net stumpage values; and the application of these principles and methods in the solution of actual case problems. Prerequisite: Forestry 211 or equivalent. 2 s.h. (w)

PROFESSOR WACKERMAN

320. **Seminar in Silviculture.**—Arranged primarily to give graduates of other schools of forestry special training in the silviculture of the forests of the South. Approximately one week will be spent at the spring camp studying silviculture in the Coastal Plain. Prerequisite: At least one course in silviculture. 3 s.h. (w)

PROFESSOR KORSTIAN

322. **Soil Classification and Mapping.**—Classification of soils as natural bodies. Mapping of soils, land use classes and forest site classes. Prerequisite: Forestry 261 or equivalent. 2 s.h. (w)

PROFESSOR COILE

323-324. **Advanced Forest Pathology.**—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged.

PROFESSOR WOLF

351-352. **Advanced Physiology of Forest Trees.**—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.

PROFESSOR KRAMER

**354. Forest Soil Fertility.**—Experimental approach to the problems of fertility in forest soil. Influence of stand composition on nitrogen transformation. Methods of studying the exchange complex and the significance of base exchange in forest soil fertility. Prerequisites: Forestry 251 and 261, plant physiology, bacteriology and analytical chemistry. **3 s.h.** (w)

PROFESSOR COILE

**356. Comparative Forest Valuation.**—Critical analysis of classical and contemporary doctrines of comparative forest valuation. Principles underlying the measurement of forces affecting values of land for forestry and alternative uses and investments of capital. Solution of problems involving procedures based upon these principles. Prerequisites: Forestry 278, 279, or 282 or equivalent; courses in economic theory are desirable. **2 s.h.** (w)

PROFESSOR THOMSON

**357-358. Research in Forestry.**—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the branches of forestry indicated under courses 301-302 with the same prerequisites as thereunder noted. Each branch to bear the same letter designation as under Courses 301-302.

THE STAFF



## FEES AND EXPENSES

The following tables show the general fees and charges collected from all students. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Tuition, per semester .....	\$175.00
General Fee, per semester .....	60.00

### TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one transcript of his record. A charge of one dollar is made for each additional copy.

### PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows, research assistants, and scholars are made in four installments, on November 25, January 25, March 25, and May 25. Fellows and scholars are required to pay the regular tuition fee and such additional fees as are ordinarily required of graduate students.

### ROOMS AND CONDITIONS OF RENTING THEM

#### ROOM-RENT FOR MEN OF DUKE UNIVERSITY

Single room, per semester .....	\$87.50
Double room, per student, per semester .....	62.50

Rooms are reserved only for students who have been officially accepted by the University. They are rented for no shorter period than one semester. The occupancy of a room for a period of less than one semester will cost the student \$1.00 each day unless the occupant makes the necessary arrangements with the Director of the Business Division before occupying the room. A room deposit of \$25.00 is required of each applicant for admission. The fee is deducted from the room charges at the time of registration for the full semester. The reservation fee will be refunded to any applicant not accepted by the University provided the official receipt for the fee, given to all paying it, is presented either in person or by letter to the Treasurer's Office, but students who make application and are accepted will not be entitled to have the reservation fee refunded later than 60 days prior to the opening of the semester.

A resident student who wishes to retain his room for the succeeding year must first pay a reservation fee of \$25.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before an announced date. All rooms which have not been signed for on or before the announced date will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be per-

mitted except with the consent of the Director of the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is strictly forbidden.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

### DORMITORIES FOR MEN

On the West Campus there are four groups of dormitories, Craven, Crowell, Kilgo, and Few. Each group forms a quadrangle enclosing a court. Few Quadrangle is reserved especially for the use of graduate and professional school students.

### BOARDING ACCOMMODATIONS

*West Campus.*—Food service is cafeteria style. The cost of meals approximates \$1.25 to \$1.75 per day depending upon the need and taste of the individual. The dining facilities in the Union on the West Campus include three cafeterias with multiple choice menus and, in addition, the Oak Room where full meals and *a la carte* items are served. In the Union also are located the U. S. Post Office, the University Store, the University Barber Shop, and miscellaneous offices and assembly rooms.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a graduate student are moderate: the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum cost, while all charges made by the University have been kept low. Incidental expenses naturally depend upon the tastes and habits of the individual. The following table gives the necessary college expenses for one year:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$350.00	\$ 350.00	\$ 350.00
General Fee .....	120.00	120.00	120.00
Room-rent .....	125.00	125.00	175.00
Board .....	337.50	388.00	468.00
Laundry .....	20.00	25.00	35.00
Books .....	22.50	30.00	45.00
Athletic Fee (optional) ....	10.00	10.00	10.00
<i>Total</i> .....	<u>\$985.00</u>	<u>\$1,048.00</u>	<u>\$1,203.00</u>

## ENROLLMENT 1948-49

### STUDENTS IN THE SCHOOL OF FORESTRY

*Alvis, Richard James	Newport News, Va.	GG-107
B.S.F., North Carolina State College, 1948		
*Bliss, Verne Fairbanks	Salem, Va.	Morreene Dairy Road
B.S., Roanoke College, 1947		
<sup>1</sup> Bramwell, Sydney Russell	Denver, Colo.	GG-123
B.S., University of Missouri, 1947		
*Brigham, Lyman Henry	Burlington, Vt.	GG-319
B.S., University of Vermont, 1947		
*Burns, Joe Gay	Pittsview, Ala.	HH-102
B.S., Alabama Polytechnic Institute, 1947		
*Butcher, Gene Lacy	Georgetown, Ky.	906 Monmouth Ave.
A.B., Georgetown College, 1947		
**Cairns, Frank Elmer, Jr.	Madison, Wis.	GG-107
B.S., Duke University, 1947		
*Carey, Charles Major, Jr.	Colonial Beach, Va.	106 W. Geer St.
B.S., Virginia Polytechnic Institute, 1947		
Carmean, Willard Handy	Norristown, Pa.	901 Fifth St.
B.S.F., Pennsylvania State College, 1943		
M.F., Duke University, 1947		
*Cook, Richard Cairns	Philadelphia, Pa.	609 Vickers Ave.
B.S.F., Pennsylvania State College, 1948		
*Corthell, Richard Eldon	Ashland, Ore.	2422 Huron St.
B.S.F., Oregon State College, 1948		
*Deetlefs, Philippus Petrus du Toit	Clanwilliam, So. Africa	GG-315
B.S., University of Stellenbosch, 1948		
*Dwyer, Walter William, Jr.	West Dennis, Mass.	HH-017
A.B., Columbia University, 1942		
*East, John William	Churchville, Va.	GG-317
B.S., Virginia Polytechnic Institute, 1943		
*Fitzgerald, Odie Leroy	Bernice, La.	GG-114
B.S., Louisiana Polytechnic Institute, 1948		
*Haigh, William Sunday	Jacksonville, Fla.	GG-209
B.S., Pennsylvania State College, 1937		
***Haliburton, William	Montreal, Que., Canada	302 Anderson St.
B.S., University of New Brunswick, 1940		
M.F., Duke University, 1943		
**Hawkins, William Theron	Taylors, S. C.	Camp Butner, N. C.
B.S., Furman University, 1948		
*Haynes, Winfred Newman	Chattanooga, Tenn.	GG-312
B.S.F., University of Georgia, 1948		
***Hofmann, Julian George	Raleigh, N. C.	GG-320
B.S., North Carolina State College, 1942		
M.S., North Carolina State College, 1947		
*Holman, Jack	Dierks, Ark.	GG-112
B.S., Louisiana State University, 1948		

<sup>1</sup> Died, October 14, 1948.

\* Registered for the Master of Forestry Degree, 1949.

\*\* Registered for the Master of Forestry Degree, 1950.

\*\*\* Registered for the Doctor of Forestry Degree, 1949.

- \*Hortin, Ross                      Albion, Ill.                      608 W. Chapel Hill St.  
B.S., Michigan State College, 1948
- \*Hunt, Francis Milton              Danville, Ky.                      GG-226  
B.S., Duke University, 1948
- \*Johnston, James Gilbert              Birmingham, Ala.                      1024 Gloria Ave.  
B.S., Birmingham-Southern College, 1938
- \*Kelly, Jack Edwin                      Shreveport, La.                      GG-114  
B.S., Louisiana Polytechnic Institute, 1948
- \*Kemp, Arne Kalervo                      Hibbing, Minn.                      1008 Green St.  
B.S., University of Georgia, 1948
- \*Koenig, Walter Louis                      New Brunswick, N. J.                      GG-124  
B.S., Rutgers University, 1947
- Labyak, Leo Francis                      Ontonagon, Mich.                      206 Woodridge Drive  
B.S.F., Michigan College of Mining and Technology, 1944  
M.F., Duke University, 1947
- \*\*Ledford, Roy Henry                      Barnardsville, N. C.                      Ellis Road  
B.S., Berea College, 1942
- \*\*Lewis, Richard Porter                      Chapel Hill, N. C.                      GG-304  
B.A., University of North Carolina, 1948
- \*McClay, Thomas Alan                      Sacramento, Calif.                      506 Morehead Ave.  
B.S., University of California, 1941
- \*Marlin, Clifton Boyd                      Dorsey, Miss.                      1004 W. Markham Ave.  
B.S., Mississippi State College, 1943
- \*\*\*Marra, George Gori                      Webster, N. Y.                      W. Va. University  
B.S., New York State College of Forestry, 1940  
M.S., New York State College of Forestry, 1942
- Miller, Ira Malcom                      Morristown, N. J.                      Morreene Dairy Road  
B.A., Emory University, 1938  
M.F., Duke University, 1940
- \*Olson, David Fredrick, Jr.                      Wauwatosa, Wis.                      GG-113  
B.S.F., Michigan State College, 1948
- \*Ordell, Arthur William, Jr.                      Lexington, Va.                      GG-124  
B.S., Virginia Polytechnic Institute, 1948
- \*\*\*Parker, Johnson                      Cambridge, Mass.                      GG-405  
A.B., Harvard College, 1941  
M.F., Yale University, 1947
- \*Perkins, Eugene George                      Russellville, Ky.                      GG-102  
B.S., Michigan State College, 1948
- \*\*Pfeiffer, Jack Russell                      Denver, Colo.                      Route 2, Box 58,  
Durham, N. C.  
B.S., Colorado A. & M. College, 1947
- \*Rogers, John Groe                      Oxford, Mass.                      GG-320  
A.B., Dartmouth College, 1947
- \*Slade, Russell Stewart                      Newark, N. J.                      HH-102  
B.S., Rutgers University, 1948
- \*Smith, John David                      New Glasgow, Va.                      108 E. Markham Ave.  
B.S., Virginia Polytechnic Institute, 1943
- Smith, Richard Chandler                      St. Paul, Minn.                      2402 Guess Road  
B.S., University of Minnesota, 1937  
M.F., Duke University, 1947
- \*\*Sprague, Edward Dubois                      Lynn, Mass.                      FF-316  
B.S., University of Massachusetts, 1948

\* Registered for the Master of Forestry Degree, 1949.

\*\* Registered for the Master of Forestry Degree, 1950.

\*\*\* Registered for the Doctor of Forestry Degree, 1949.



## SCHOOL OF FORESTRY

33

*Sutton, Richard Francis	Winchester, Va.	801 North St.
B.S., Virginia Polytechnic Institute, 1948		
**Thomasson, Gerald Ste. Gemme	Columbia, Mo.	GG-123
B.S., University of Missouri, 1948		
<sup>2</sup> Thompson, George Arnold	Lynchburg, Va.	818 Wilkerson Ave.
A.B., Duke University, 1948		
*Tyler, John Thorpe	Canterbury, Conn.	GG-123
A.B., Kenyon College, 1942		
*Wagoner, Eddie Raymond	Louisville, Ky.	715 Broad St.
B.S.F., University of Georgia, 1941		
*Warner, John Robinson	Walkersville, Md.	1400 Leon St.
B.S., Duke University, 1946		
*Waters, William Eugene	Mount Vernon, N. Y.	1014 Lamond Ave.
B.S., New York State College of Forestry, 1948		
<sup>2</sup> Weaver, Robert Lee	Upper Darby, Pa.	GG-118
A.B., Duke University, 1945		
*Wenger, Karl	Durham, N. C.	2510 Shenandoah Ave.
B.S., University of Maine, 1939		
*Woodbridge, Earl Byron	Tamaqua, Pa.	GG-118
A.B., Duke University, 1947		
*Worsham, Jesse Norman	Gretna, Va.	2305 Prince St.
Virginia Polytechnic Institute, 1941		
Wu, Chung Iwen	Feng-chiao, Chekiang, China	HH-104
B.S., University of Nanking, 1941		
M.F., Yale School of Forestry, 1947		
*Zak, Bratislav	Pittsburgh, Pa.	GG-304
B.S., Pennsylvania State College, 1941		
Total .....		57

STUDENTS OF FORESTRY IN THE GRADUATE SCHOOL  
OF ARTS AND SCIENCES

Boyce, John Shaw, Jr.	New Haven, Conn.	819 Demerius St.
B.S., Yale University, 1942		
M.F., Yale University, 1948		
Knudsen, Lyle Leonard	Sioux City, Iowa	801 North St.
B.S., Morningside College, 1946		
Metz, Louis John	Crawford, Colo.	801 North St.
B.S., Michigan State College, 1942		
M.F., Duke University, 1947		
Ralston, Charles William	Miami, Fla.	2123 Sprunt St.
B.S., Colorado State College, 1942		
M.F., Duke University, 1947		
Total .....		4

ACADEMIC-FORESTRY SENIORS IN THE SCHOOL  
OF FORESTRY

Campbell, Craig Carol	University, N. C.	D-404
Evans, Gerald Wilbert	Connellsville, Pa.	E-404
Jones, Edward Earl	Durham, N. C.	116 W. Seeman St.
Marlow, Ernest Grant	Front Royal, Va.	P.O. Box 5198
Richeson, Raymond McGrady	Ashland, Va.	E-303
Turpin, David Howard	Bedford, Va.	Z-201
Total .....		6

<sup>2</sup> Withdrew, December, 1948.<sup>3</sup> Withdrew, November 22, 1948.<sup>4</sup> Withdrew, November 20, 1948.

\* Registered for the Master of Forestry Degree, 1949.

\*\* Registered for the Master of Forestry Degree, 1950.

\*\*\* Registered for the Doctor of Forestry Degree, 1949.

## INSTITUTIONS REPRESENTED

Alabama Polytechnic Institute ....	1	New York State College of Forestry .....	1
Berea College .....	1	Oregon State College .....	1
Birmingham-Southern College ....	1	Pennsylvania State College .....	4
Colorado A. & M. College .....	1	Roanoke College .....	1
Columbia University .....	1	Rutgers University .....	2
Dartmouth College .....	1	University of California .....	1
Duke University .....	11	University of Georgia .....	3
Emory University .....	1	University of Maine .....	1
Furman University .....	1	University of Massachusetts .....	1
Georgetown College .....	1	University of Minnesota .....	1
Harvard College .....	1	University of Missouri .....	2
Kenyon College .....	2	University of Nanking .....	1
Louisiana Polytechnic Institute ...	2	University of New Brunswick ....	1
Louisiana State University .....	1	University of North Carolina .....	1
Michigan College of Mining & Technology .....	1	University of Stellenbosch .....	1
Michigan State College .....	3	University of Vermont .....	1
Mississippi State College .....	1	Virginia Polytechnic Institute ...	6
North Carolina State College .....	2	Yale University .....	2
		<i>Total Institutions</i> .....	36

## GEOGRAPHICAL DISTRIBUTION

## United States

Alabama .....	2	Mississippi .....	1
Arkansas .....	1	Missouri .....	1
California .....	1	New Jersey .....	3
Colorado .....	2	New York .....	2
Connecticut .....	1	North Carolina .....	4
Florida .....	1	Oregon .....	1
Illinois .....	1	Pennsylvania .....	5
Kentucky .....	4	South Carolina .....	1
Louisiana .....	2	Tennessee .....	1
Maryland .....	1	Vermont .....	1
Massachusetts .....	4	Virginia .....	9
Michigan .....	1	Wisconsin .....	2
Minnesota .....	2	<i>Total States</i> .....	25

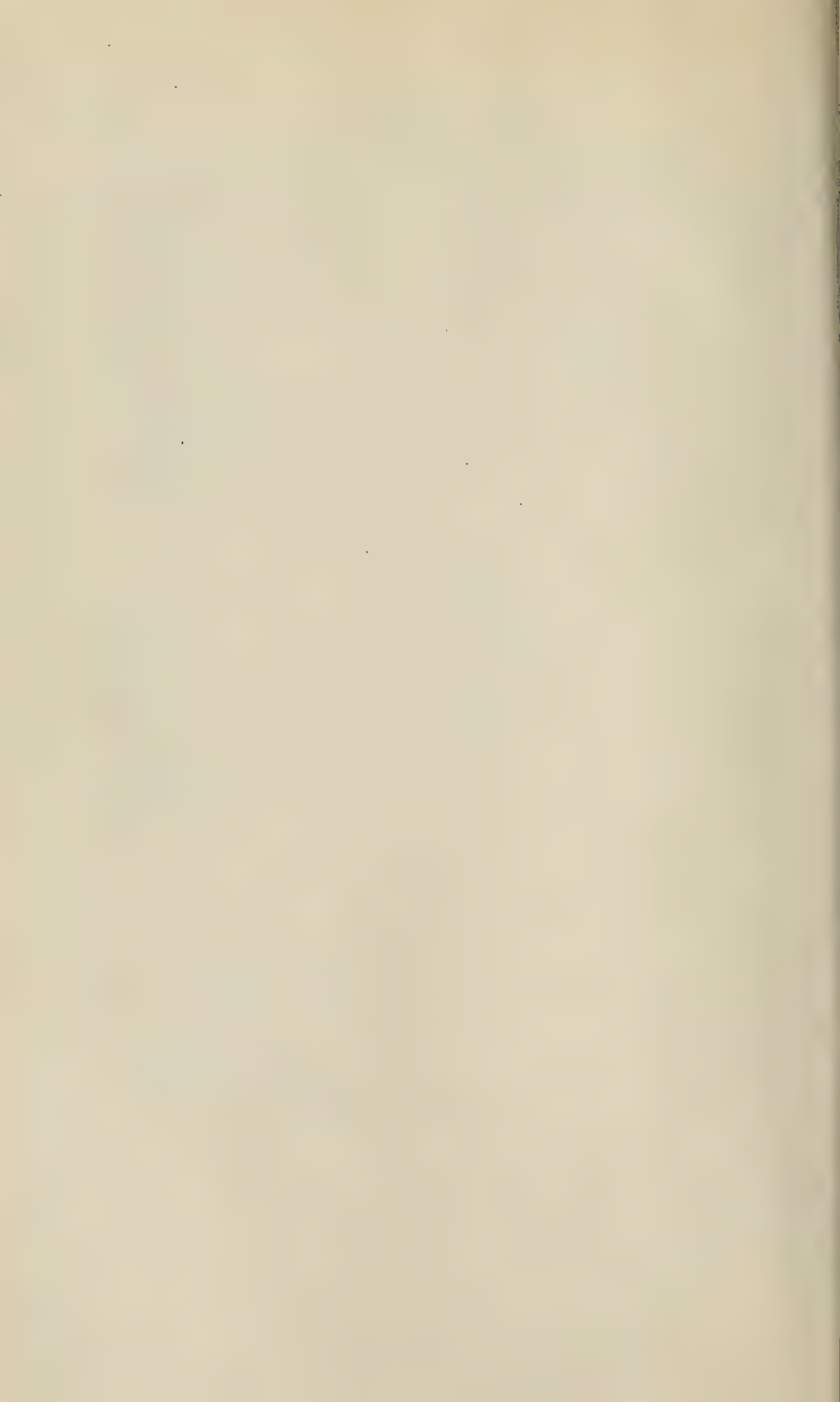
## Foreign Countries

Canada .....	1	South Africa .....	1
China .....	1		

## GENERAL SUMMARY

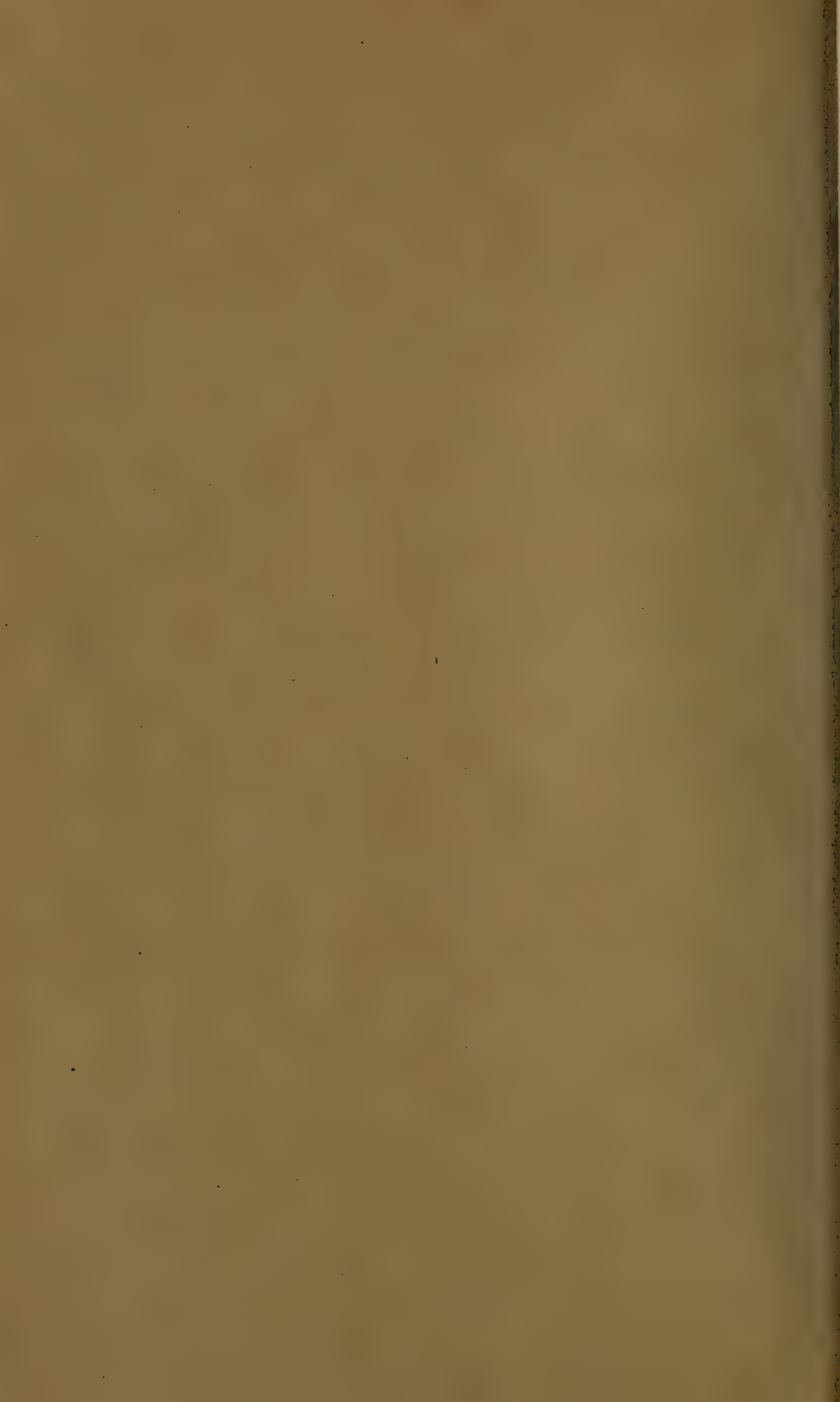
Students in the School of Forestry .....	57
Students of Forestry in the Graduate School of Arts and Sciences .....	4
Academic-Forestry Seniors in the School of Forestry .....	6
<i>Total Enrollment</i> .....	67
Total number of institutions represented .....	36
Total number of states represented .....	25
Total number of foreign countries represented .....	3











VOLUME 21

February, 1949

NUMBER 4-A

# BULLETIN OF DUKE UNIVERSITY

*The School of Medicine*



1949

ANNOUNCEMENTS FOR 1949-1950

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

1949

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## FOREWORD

This bulletin is issued for prospective medical students. Admissions into any class are made only on the understanding that every decision of the Executive Committee shall apply to all students, even though it is made subsequently to their enrollment in the School. At frequent intervals the Executive Committee reviews the records of all students, and those whose progress has been unsatisfactory may be required to leave the School. ONLY THOSE WILL BE ADVANCED WHO, IN THE OPINION OF THE EXECUTIVE COMMITTEE, GIVE PROMISE OF BEING A CREDIT TO THEMSELVES AND TO THE SCHOOL. The next first-year class will be admitted October 3, 1949. For admission requirements and applications, see page 7.

## SCHOOL OF MEDICINE SCHEDULE, 1949-1950

### 1949

Jan.	3	Monday—Registration of students, and Winter Quarter begins.
March	19*	Saturday—Winter Quarter ends.
March	28	Monday—Registration of students, and Spring Quarter begins.
April	18	Easter Monday: a holiday.
June	6	Monday—Commencement exercises.
June	11	Saturday—Spring Quarter ends.
July	5	Tuesday—Registration of students, and Summer Quarter begins.
Sept.	17	Saturday—Summer Quarter ends.
Oct.	3	Monday—Registration of students, and Autumn Quarter begins.
Nov.	24	Thursday—Thanksgiving: a holiday.
Dec.	17	Saturday—Autumn Quarter ends.

### 1950

Jan.	2	Monday—Registration of students, and Winter Quarter begins.
March	18†	Saturday—Winter Quarter ends.
April	3	Monday—Registration of students, and Spring Quarter begins.
April	10	Easter Monday: a holiday.
June	5	Monday—Commencement Exercises.
June	10	Saturday—Spring Quarter ends.
July	3	Monday—Registration of students, and Summer Quarter begins.
Sept.	16	Saturday—Summer Quarter ends.
Oct.	2	Monday—Registration of students, and Autumn Quarter begins.
Nov.	30	Thursday—Thanksgiving: a holiday.
Dec.	16	Saturday—Autumn Quarter ends.

\* First-year students do not have the holiday at the end of this quarter; instead they have a holiday from February 9-17 inclusive, 1949.

† First-year students do not have the holiday at the end of this quarter; instead they have a holiday from February 8-14 inclusive, 1950.



## GENERAL STATEMENT

Duke University School of Medicine and Duke Hospital were established in 1930, through the munificent gift of the late James B. Duke. The School of Medicine has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and is also a member of the Association of the American Medical Colleges. On October 4, 1948, two hundred and seventy-eight students were enrolled.

### AIMS OF THE SCHOOL

Duke University School of Medicine, from its beginning in 1930, has maintained as its major objectives: (a) the cultivation and teaching of medicine on a strictly scientific basis; (b) the correlation of medical research with medical teaching at all levels of its teaching; and (c) the continuous search for and experimentation with new or improved methods of teaching scientific medicine. In order to attain these objectives, the School has been organized, its physical plant planned, and its administrative structure constituted so that there exists the closest possible academic and physical relationship between undergraduate and graduate work in the University and the School of Medicine, and also between the basic medical sciences and the clinical sciences within the School and its integrated teaching Hospital. The professional staff of the School is composed of two general categories, those with permanent appointment and unlimited tenure, and those with temporary appointment. The latter, the much larger group, is maintained on a highly fluid basis, which makes possible a high degree of selectivity in appointment for academic training and scientific research. The smaller group of permanent appointees has in every individual a background characterized by academic and scientific attainment. The professional, academic, and scientific environment created by the staff is thus such as to engender scientific inquiry and to encourage diligent pursuit of the medical sciences in all their relationships. The staff at all levels devotes its entire professional time to the activities of the School or Hospital.

### FACILITIES OF THE HOSPITAL

Duke Hospital, an integral part of Duke University School of Medicine, has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 579 beds, including 50 bassinets for newborn infants. *Medicine*, including dermatology and neurology, has 77 ward beds; *surgery*, including urology, otolaryngology, ophthalmology, and orthopaedics, 135 ward beds; *obstetrics*, including *gynecology*, 59, and 50 bassinets; *neuropsychiatry*, 9; and *pediatrics*, 40. There are 209 private rooms and semiprivate cubicles,

7 air-conditioned operating rooms, 4 obstetric delivery rooms, and ward and student laboratories. Offices and examining rooms for members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internships and residencies by the Council on Medical Education and Hospitals of the American Medical Association, and the American College of Surgeons.

Duke Hospital and its Out-Patient Clinic were opened for patients on July 21, 1930. Through December 31, 1948, 351,150 individuals have been examined, diagnosed, and treated. The average daily census of hospital patients during the past year was 452.1; 92,938 visits were made to the Out-Patient Clinic during the same period. Twenty-one per cent of the patients come from within a radius of twenty miles, the remaining 79 per cent come from the other 99 counties in North Carolina and from 36 other states and 3 foreign countries. The average distance traveled by the patients is more than seventy miles.

The Private Diagnostic Clinic was organized to co-ordinate the diagnostic studies, and to give better care for the complicated problems arising in the examinations of private patients. The Clinical Staff of Duke Hospital and School of Medicine forms the professional staff of this clinic, while the financial side is handled by a business-manager. The offices and examining rooms are in Duke Hospital, and all the laboratory and diagnostic facilities of the Hospital and School of Medicine are utilized by the Clinic.

### LIBRARY

JUDITH FARRAR, A.B., B.S., *Librarian*.

MILDRED PERKINS FARRAR, A.B., *Assistant Librarian*.

*"To study the phenomena of disease without books is to sail an uncharted sea, while to study books without patients is not to go to sea at all."*—SIR WILLIAM OSLER.

In addition to the General Library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 879,701 volumes available for medical students, Duke Hospital Library contains 48,000 volumes of American and foreign medical literature and subscribes to 545 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:30 A.M. to 10:30 P.M. for the students, nurses, staff, and medical profession.

### CURRICULUM OF THE SCHOOL OF MEDICINE

The curriculum, shown below, consists of two semesters in the first year and three quarters each in the second, junior and senior years. There is no summer quarter between the first and second year, but in the two clinical years the subjects of the autumn, winter and spring terms are repeated in the summer quarter. This accelerated schedule is optional,\* and students may take the two semesters of their first year, and three quarters in each of their subsequent years, and receive their certificates in four calendar years, *or*, if they receive permission from the Curriculum Committee, they may at the end of their second year take the clinical

\* See footnote on the next page.

quarters given during the summers and receive their certificates in three and one quarter calendar years.

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the clinical staff assist in the teaching of preclinical subjects and demonstrate to the students of the first two years patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. In the junior and senior years, preclinical instructors assist the clinical staff in presenting the underlying basis of disease.

The free time in this curriculum may be spent in elective work or anything else the student wishes to do. No credits are given, but opportunity is provided for each student on his own initiative to obtain additional training which he may feel to be necessary or desirable. Elective courses have been organized for small groups, or the time may be utilized in independent work (including research) in any department, clinical or preclinical. Arrangements for taking such courses or doing other work are to be made through the Curriculum Committee.

It is hoped that many students will migrate to other medical schools for one or more quarters. Those who wish to do so, or to substitute a schedule different from that listed below, must have their programs approved in advance by the Curriculum Committee, and afterwards must present evidence that they have completed work comparable to that of the curriculum during the quarters in which they were away or were following an altered schedule.

#### OPTIONAL ACCELERATED SCHEDULE\*

(The hours for these courses will be posted on the bulletin board.)

##### FIRST YEAR

FIRST SEMESTER:	HOURS
October 3, 1949, to February 8, 1950.	
Anatomy (including histology and neuroanatomy) .....	642
SECOND SEMESTER:	
February 15 to June 10, 1950.	
**Physiology .....	339
†Biochemistry .....	284
Psychobiology .....	15
Free time .....	5

##### SECOND YEAR

AUTUMN QUARTER (4th):	
October 3 to December 17, 1949.	
Pharmacology .....	121
Bacteriology .....	176
Parasitology .....	44
Biostatistics .....	44
Free time .....	44
WINTER QUARTER (5th):	
January 2 to March 17, 1950.	
Pathology .....	220
Clinical Microscopy .....	99

\* This optional schedule may be made compulsory, and a thirteenth elective quarter may be added to the senior year.

\*\* Physiology will start four weeks after the beginning of the second semester, and will run to the end of the semester.

† Biochemistry will start at the beginning of the second semester and will end four weeks before the end of the semester.

Physical Diagnosis .....	83
Free time .....	27
SPRING QUARTER (6th) :	
March 26 to June 10, 1950.	
Pathology .....	220
Physical Diagnosis .....	77
Public Health .....	66
Free time .....	66

### JUNIOR YEAR

SUMMER QUARTER (7th) :* July 5 to September 17, 1949.	
Medicine (Junior) .....	429
AUTUMN QUARTER (8th) :* October 3 to December 17, 1949.	
Surgery (Junior) .....	429
WINTER QUARTER (9th) :* January 2 to March 17, 1950.	
Obstetrics and Gynecology (Junior) .....	352
Neuropsychiatry .....	77

### SENIOR YEAR

SPRING QUARTER (10th) :* March 28 to June 11, 1949.	
Medicine (Senior) .....	429
SUMMER QUARTER (11th) :* July 5 to September 17, 1949.	
Surgery (Senior) including urology and orthopaedics.....	363
Electives .....	66
AUTUMN QUARTER (12th) :* October 3 to December 17, 1949.	
Pediatrics .....	226
Surgery .....	41
Final clinical examinations .....	22
Neuropsychiatry .....	41
Preventive Medicine .....	33
Electives .....	66

### SUMMARY

Total number of hours in curriculum.....	5,146
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### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

After the satisfactory completion of six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done. No credit toward this degree is given for additional college work. All students in good standing are encouraged to undertake such investigative work as they may elect with the approval of the head of the department

\* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. The above schedule merely illustrates the program of one group.



in which they wish to work. All requirements must be completed three months prior to the date on which the B.S. degree is requested.

### REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE

The degree of Doctor of Medicine is conferred on those who have completed, to the satisfaction of the Executive Committee, the twelve quarters of 11-12 weeks each of the curriculum of the School of Medicine, the preclinical and clinical examinations, and have signed an agreement that they will spend at least two years of the succeeding three years in hospital or laboratory work acceptable to the Executive Committee. As a guarantee of this pledge the diploma is deposited in the Treasurer's Office until after the completion of this training. Failure to fulfill this agreement constitutes a waiver of any claim to possession of the diploma and the degree of Doctor of Medicine.

### APPLICATION FOR ADMISSION

Application forms may be obtained by writing to the Committee on Admission, Duke University School of Medicine, Durham, N. C. A check or post office money order for \$5, payable to Duke University School of Medicine, must accompany each application. This is not refundable. If further information is required after the Committee has studied the completed application, a personal interview with the Committee on Admission or a Regional Representative is arranged for the applicant. The candidate then is notified as soon as possible whether he has been accepted or declined; if accepted, he must send a deposit of \$50 within two weeks to insure enrollment. This money is applied toward the tuition. The next first-year class will be admitted October 3, 1949. Applications should be submitted by December 1st, of the preceding year. Due to the large number of applicants to all medical schools, candidates are advised to apply to at least four schools. The number of students in each class is limited to 76, but only those students will be accepted who give promise of being a credit to the School and the medical profession. Women are received on the same terms as men. In the event of vacancies, students from other medical schools may be considered for admission to any quarter for which their previous training has fitted them. Each application for advanced standing will be considered upon its own merits.

### REQUIREMENTS FOR ADMISSION

*"I request that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination and application evincing a wholesome and real ambition for life."*—JAMES B. DUKE.

*Intelligence and character are the essential qualifications for admission.*

The minimum requirements for admission to this School include approved college credits of not less than ninety semester hours, which shall include adequate preparation in English, mathematics, physics, biology, and chemistry. This preparation should be obtained in college courses of one-year duration, except in English and chemistry. In those subjects, two years are recommended. The second year in English should

be chiefly composition and theme writing. The first year of chemistry should be general (inorganic), and the second, analytic and organic chemistry.

The premedical students should be aware of the importance of a well-rounded general education as a preparation for the study of medicine and not limit himself to scientific courses. He would be better advised to secure a knowledge of the principles and a thorough appreciation of the interrelations of the basic sciences than to accumulate credits in many courses. He should learn how to work independently, to observe critically, and to analyze, rather than simply store, the information presented. His choice of studies, beyond those required for admission, should be governed by his own chief interests and by the intellectual stimulus to be derived from the work. His major interest may be in any field, scientific or otherwise, and should provide an opportunity for the demonstration of his real ability. In general, he should avoid courses in subjects which are included in the medical curriculum.

The selection of students is based upon the quality rather than the quantity of preparation and upon demonstrated evidence of personal attributes of intelligence, character, and general fitness for the study and practice of medicine. In considering an applicant many sources of information may be consulted including (1) his curricular and extracurricular college record, (2) carefully prepared, confidential appraisals by teachers who know him personally, (3) his percentile rating on the Professional Aptitude Test,\* and (4) the results of an interview with members of the Admission Committee or one of its Regional Representatives.

#### REGIONAL REPRESENTATIVES OF THE COMMITTEE ON ADMISSION

Birmingham, Alabama.....	M. Y. DABNEY
Birmingham, Alabama.....	RAYMOND C. RAMAGE
Pasadena, California.....	ROBERT H. PUDENZ
San Francisco, California.....	EMILE F. HOLMAN
San Francisco, California.....	CHARLES H. DANFORTH
Montreal, Canada.....	WILDER PENFIELD
Denver, Colorado.....	F. VERNON ALTVATER
New Haven, Connecticut.....	ALLEN K. POOLE
Jacksonville, Florida.....	E. B. DUNLAP, JR.
Jacksonville, Florida.....	EDWARD JELKS
Atlanta, Georgia.....	JAMES E. PAULLIN
Savannah, Georgia.....	VICTOR H. BASSETT
Chicago, Illinois.....	GEORGE H. GARDNER
Iowa City, Iowa.....	ARTHUR L. BENTON
Iowa City, Iowa.....	PHILIP C. JEANS
Wichita, Kansas.....	THOMAS JAGER
Louisville, Kentucky.....	MALCOLM D. THOMPSON
Louisville, Kentucky.....	S. I. KORNHAUSER
New Orleans, Louisiana.....	PHILIP H. JONES, JR.
Baltimore, Maryland.....	JOHN T. KING, JR.
Baltimore, Maryland.....	GEORGE W. CORNER
Boston, Massachusetts.....	MARSHALL N. FULTON
Boston, Massachusetts.....	JAMES H. CURRENS

\* This test is given at many of the colleges during the autumn term. If information is not available locally, it may be obtained from the Graduate Record Office, 437 W. 59th St., New York 19.

Detroit, Michigan.....	ROY D. McCLURE
Rochester, Minnesota.....	W. H. HOLLINSHEAD
Kansas City, Missouri.....	RALPH H. MAJOR
St. Louis, Missouri.....	DORIS SURLS WOOLSEY
Butte, Montana.....	CAROLINE MCGILL
New York, New York.....	LAWRENCE S. KUBIE
New York, New York.....	JAMES B. MURPHY
New York, New York.....	BERTRAM J. SANGER
Rochester, New York.....	WILLIAM S. McCANN
Syracuse, New York.....	PHILIP B. ARMSTRONG
Davidson, North Carolina.....	JOHN W. MACCONNELL
Cleveland, Ohio.....	B. S. KLINE
Columbus, Ohio.....	CHARLES A. DOAN
Dayton, Ohio.....	R. L. JOHNSTON
Toledo, Ohio.....	JOHN L. STIFEL
Oklahoma City, Oklahoma.....	WILLIAM M. TAYLOR
Portland, Oregon.....	KARL H. MARTZLOFF
Johnstown, Pennsylvania.....	W. FREDERIC MAYER
Palmerton, Pennsylvania.....	R. P. BATCHELOR
Pittsburgh, Pennsylvania.....	DAVENPORT HOOKER
Scranton, Pennsylvania.....	GEORGE A. CLARK
Charleston, South Carolina.....	EDWARD F. PARKER, JR.
Charleston, South Carolina.....	J. I. WARING
Columbia, South Carolina.....	WILLIAM WESTON
Columbia, South Carolina.....	JAMES H. GIBBES
Chattanooga, Tennessee.....	RICHARD VAN FLETCHER
Memphis, Tennessee.....	RAPHAEL E. SEMMES
Nashville, Tennessee.....	SAM L. CLARK
Sewanee, Tennessee.....	HENRY T. KIRBY-SMITH
Dallas, Texas.....	A. JAMES GILL
San Antonio, Texas.....	P. I. NIXON
Salt Lake City, Utah.....	ALFRED J. RIDGES
Charlottesville, Virginia.....	HENRY B. MULHOLLAND
Richmond, Virginia.....	I. A. BIGGER
Roanoke, Virginia.....	HUGH H. TROUT
Seattle, Washington.....	R. D. FORBES
Huntington, West Virginia.....	R. M. WYLIE
Madison, Wisconsin.....	WALTER E. SULLIVAN

## FEES AND EXPENSES

All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of \$5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of \$250 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except that students who have been permitted by the Curriculum Committee to spend a quarter at another medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the \$250 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

### Fees and Expenses

Tuition, per quarter.....	\$250	
General Fee, per quarter, including Health, Commencement, and Diploma Fees .....	7.50	
Athletic Fee, admitting student to all athletic contests held on the University campus, during the quarter (optional).....	6	
Room-rent, per quarter* (estimated) .....	58.50	
Board, per quarter (estimated) .....	120 to	130
Laundry, per quarter (estimated) .....	10 to	20
Books, per quarter (estimated) .....	25 to	50
National Board of Medical Examiners, Fees† \$20 (Part I), \$15 (Part II)		
Microscope, ophthalmoscope, otoscope, and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the Univer- sity, per quarter .....	30 to	50
Estimated total expenses, per month .....	150 to	250

### ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the loan fund of the W. K. Kellogg Foundation is available for students who are not financially able to meet their expenses. Medical students, after their third quarter, may apply for loans from these sources. No scholarships are awarded in the School of Medicine. The loan funds are administered in accordance with the following regulations:

1. No loan will be made to a student who violates any of the regulations of the University or who is not doing outstanding classwork.
2. Loans will be made only to students who are taking full courses

\* Rooms may be reserved by medical students in Few Quadrangle. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Applications for rooms, accompanied by a reservation fee of \$25, should be made by writing to Mr. W. E. Whitford, Duke University, Durham, N. C.

† Payable at the beginning of the quarter in which a student is eligible for the examination.



of study that lead to a degree, and all loans must be arranged not later than one week after the beginning of a quarter.

3. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money will be advanced before a note with approved security is in the hands of the Treasurer of the University.

### **MEDICAL CARE**

ELBERT L. PERSONS, A.B., M.D., *Physician in Charge*

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated medical students of the University who have paid the quarterly General Fee. This service is under the direction of the Physician in Charge with the co-operation of the Staff of Duke Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, x-ray studies, and ward but not special nursing. A charge for board is made at the same rate as in the university dining halls. Refraction of eyes and treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernia, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the patient.

### **STUDENT GOVERNMENT**

The members of the student body elect an Honor Council, in which each class is represented. It is the duty of the Honor Council to hear all cases involving breaches of conduct on the part of members of the student body. All new students entering the School are required to comply with this system of government.

### **RESERVE OFFICER TRAINING CORPS**

The course consists of instruction in military medicine throughout the four years of medical school. The student receives compensation during the last two years and while at a required summer encampment. Those completing the program will be offered reserve commissions in the Army Medical Corps. Details of the program, eligibility, compensation, etc., may be obtained by addressing the PMS&T, Duke University School of Medicine.

### **FREDERIC M. HANES FELLOWSHIPS**

Duke medical students after their first year are eligible for a leave of absence and a Fellowship of \$125 per month for full-time research work at Duke with special emphasis in a preclinical subject. These Fellowships will be granted on the recommendation of the Executive Committee, for a period of six months, but may be renewed. Information may be obtained from Dr. D. T. Smith.

**AWARDS TO MEDICAL STUDENTS AND INTERNS**

(Additional information may be obtained from the Dean's Office.)

**BORDEN UNDERGRADUATE RESEARCH AWARD IN MEDICINE**

An award of \$500 may be given to the Duke Senior who, in the opinion of the Executive Committee, has performed the best research work during his or her entire medical course, including that done during the pre-clinical years, and theses for the B.S. degree in Medicine. *Applicants should submit their papers, articles or reprints to the Dean at least three months prior to expected date of graduation.*

**E. MEAD JOHNSON PRIZES IN PEDIATRICS**

An award of Brennemann's Practice of Pediatrics may be given to the Duke Senior who, in the opinion of the pediatric staff, is the outstanding student of pediatrics.

A choice of pediatric books will be awarded to the Duke Pediatric Resident Staff.

**BAGBY AWARD IN PEDIATRICS**

The best Duke Pediatric Intern is eligible for a subscription to the *American Journal of the Diseases of Children*.

**MOSBY AWARDS**

One-year subscriptions to the *Journal of Pediatrics*, *American Journal of Obstetrics and Gynecology*, and *American Heart Journal*, *Surgery*, *American Journal of Syphilis, Gonorrhea, and Venereal Diseases*, *Journal of Allergy*, *Journal of Thoracic Surgery*, and *Journal of Laboratory and Clinical Medicine* may be awarded to the best seniors in pediatrics, obstetrics, medicine, surgery, urology, allergy, thoracic surgery and clinical microscopy, respectively.

VOLUME 21

February, 1949

NUMBER 4-B

# BULLETIN OF DUKE UNIVERSITY

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## *Financial Report*



1947-48

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

Published by Duke University monthly except in July, August, September, and December. Entered as second-class matter March 25, 1929, at the Post Office of Durham, North Carolina, under the Act of August 24, 1912.



BULLETIN  
OF  
DUKE UNIVERSITY  
FINANCIAL REPORT

Year Ended June 30, 1948





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H. J. HERRING, *Vice-President and Dean of Trinity College*

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C. B. MARKHAM, *Treasurer of the University*

G. C. HENRICKSEN, *Assistant Business Manager and Assistant Comptroller*

E. B. WEATHERSPOON, *Assistant Secretary of the University*

\* Died September 14, 1948.

† Elected January 8, 1949.



## LETTER OF TRANSMITTAL

To the Board of Trustees of Duke University:

Herewith is submitted the Financial Report of Duke University for the year ended June 30, 1948. This report shows the result of operations during the fiscal year and the financial condition of the University at its close.

The report contains the following statements:

*Balance Sheet.* This shows the assets and liabilities of the University, including Endowment Funds, Plant Account, Current Funds, Loan, Scholarship and Expendable Special Funds, the uses of which are restricted. The statement does not include any portion of the indivisible Corpus Funds of the Duke Endowment, the income of which, subject to the terms of the Trust Indenture, accrues to Duke University. The income from this source, as will be seen from the Summary of Receipts, amounted to \$1,200,420.30.

*Receipts and Expenditures.* These summary statements cover the operation of the various schools and colleges, namely, Trinity College, the Woman's College, the College of Engineering, the Law School, the Divinity School, the School of Forestry, the Schools of Medicine and Nursing, and the Graduate School of Arts and Sciences, and in addition, in summary form the activities of the several restricted funds. Balances of Restricted Funds are carried to reserves because expenditures are limited to those purposes specifically designated by the terms of trusteeship. The Duke Hospital and other service agencies are included on a net basis.

*Other Statements.* There are included also detailed statements of the several endowment funds of the University, and a summary of the activities of Expendable Special Funds, the use of which is restricted to certain and definite purposes.

With the outlook for reduction in general and unrestricted income, the University will have to place considerable reliance upon gifts for current expenses and substantial contributions to its Endowment Funds, the income from which is not restricted to any specific purpose. While the needs of the University include funds for additional buildings or other specific purposes, particularly in the field of research, it should be apparent to any donor, or a prospective one, that to place restrictions upon the purposes for which gifts, or the income thereon, may be expended, greatly limits the freedom of the University in the development of a balanced program of instruction and research. The University is facing the future with the confident expectation that adequate financial support will be forthcoming from its many loyal alumni and friends.

Respectfully submitted,

C. B. MARKHAM,  
*Treasurer.*

A. S. BROWER,  
*Business Manager and Comptroller.*

Durham, N. C., December 1, 1948.





**ELKINS, DURHAM & KEMP**

Certified Public Accountants

STATE-PLANTERS BANK BUILDING

RICHMOND, VA.

W. L. ELKINS, C.P.A.  
ARTHUR N. KEMP, C.P.A.MEMBERS  
AMERICAN INSTITUTE OF ACCOUNTANTS  
VIRGINIA SOCIETY OF PUBLIC ACCOUNTANTS

November 15, 1948

Board of Trustees  
Duke University  
Durham, North Carolina

Gentlemen:

We have examined the Balance Sheet of Duke University, Durham, North Carolina, as of June 30, 1948, and the related statements included herewith.

In connection therewith, we have reviewed the system of internal control and the accounting procedures of the University, and have examined or tested the accounting records and other supporting evidence by methods and to the extent we deemed appropriate. Our examination was made in accordance with generally accepted auditing standards applicable in the circumstances, and included all procedures which we considered necessary.

We did not verify by communication the accounts receivable, but all student loan notes were inspected.

The accounts herewith do not include any amount as endowment which, if included, would represent that portion of the indivisible corpus funds, the income from which accrues to the University under the terms of an indenture dated December 11, 1924, whereby Mr. James B. Duke established a trust to be administered for educational and charitable purposes.

In our opinion, the accompanying Balance Sheet and Summary of Receipts and Expenditures present fairly the position of Duke University as of June 30, 1948, and the results of its operations for the fiscal year.

Respectfully submitted,

ELKINS, DURHAM &amp; KEMP

By ARTHUR N. KEMP,

*Certified Public Accountant.*

**BALANCE SHEET**

June 30, 1948

**ASSETS**

<b>ENDOWMENT FUNDS*</b>			
Cash	\$	16.21	
Investments		3,920,867.33	\$ 3,920,883.54
<hr/>			
<b>ENDOWED SPECIAL FUNDS</b>			
Checking Accounts		34,010.25	
Savings Accounts		22,000.00	
Investments		402,554.95	458,565.20
<hr/>			
<b>FUNDS FUNCTIONING AS ENDOWMENT</b>			
Cash		22,701.55	
Investments		11,315,909.86	11,338,611.41
<hr/>			
<b>PLANT</b>			
Land, Buildings and Equipment including			
Library Books			34,609,948.22
<hr/>			
<b>STUDENT LOAN FUNDS</b>			
Checking Accounts		43,674.59	
Savings Accounts		86,500.00	
Investments		284,431.49	
Student Notes		57,196.43	471,802.51
<hr/>			
<b>SCHOLARSHIP FUNDS</b>			
Checking Accounts		92,700.57	
Savings Accounts		102,000.00	
Investments		482,396.34	677,096.91
<hr/>			
<b>EXPENDABLE SPECIAL FUNDS</b>			
Checking Accounts		496,786.55	
Savings Accounts		498,976.45	
Investments		1,778,420.09	
Accounts Receivable less			
Accounts Payable		242,847.40	3,017,030.49
<hr/>			
<b>CURRENT FUND</b>			
Cash		247,903.71	
Accounts Receivable		351,659.87	
Inventories		652,331.79	
Deferred Charges		17,689.04	1,269,584.41
<hr/>			
			<u>\$55,763,522.69</u>

\* Exclusive of that portion of the indivisible Corpus Funds of The Duke Endowment, the income of which, subject to the terms of the Trust Indenture, accrues to Duke University.

**BALANCE SHEET**

June 30, 1948

**LIABILITIES AND FUNDS**

ENDOWMENT FUNDS*		
(Schedule A)		\$ 3,920,883.54
ENDOWED SPECIAL FUNDS		
Principal Unexpendable	\$399,282.09	
Surplus Expendable	59,283.11	
(Schedule B)		
		458,565.20
FUNDS FUNCTIONING AS ENDOWMENT		11,338,611.41
INVESTMENT IN PLANT		34,609,948.22
STUDENT LOAN FUNDS		
Principal, Unavailable for Loans	219,598.48	
Principal, Available for Loans	71,801.31	
Surplus, Available for Loans	180,402.72	
(Schedule C)		
		471,802.51
SCHOLARSHIP FUNDS		
Principal, Unexpendable	488,166.27	
Surplus, Expendable	188,930.64	
(Schedule D)		
		677,096.91
EXPENDABLE SPECIAL FUNDS		
(Schedule E)		3,017,030.49
CURRENT FUND		
Accounts Payable	398,537.28	
Deferred Credits	249,559.29	
Surplus	621,487.84	
		1,269,584.41
		<u>\$55,763,522.69</u>

\* See footnote, page 10.

**DUKE UNIVERSITY  
SUMMARY OF RECEIPTS**

Year Ended June 30, 1948

RECEIPTS:

Endowment Income:

Duke University Endowment Income	\$ 181,863.00
Funds Functioning as Endowment	588,717.32
The Duke Endowment—Income from that portion of the indivisible Corpus Funds which, subject to the terms of the Trust Indenture, accrues to Duke University	1,200,420.30
	<hr/> 1,971,000.62 <hr/>

Gifts for Current Expenses (Schedule F)

Tuition and Fees	19,926.25
Dormitory Rents (net)	2,353,127.92
Other Rents	178,825.97
Sundries	43,800.00
	193,772.23

Restricted Funds:

Gifts for Plant and Equipment (Schedule G)	\$ 844,099.43
Gifts and Grants for Research (Schedule H)	748,096.96
Gifts for Fellowships and Scholarships (Schedule I)	35,270.66
Gifts for Miscellaneous Purposes (Schedule J)	92,002.78
Investment Income	95,737.57
Blood Bank	29,376.53
Forest Operations	18,505.73
Loyalty Fund (1947-48 Expendable for General Purposes 1948-49)	107,980.27
Miscellaneous	27,081.11

---

1,998,151.04

Less: Amount Carried to Restricted  
Fund Reserves

551,889.89      1,446,261.15

Excess of Expenditures over Receipts

370,735.71

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**\$ 6,577,449.85**

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**DUKE UNIVERSITY**  
**SUMMARY OF EXPENDITURES**

Year Ended June 30, 1948

EXPENDITURES :

Administration		\$ 457,753.97
Educational :		
Instruction	\$2,426,339.33	
Summer School	112,553.82	
Library Operations	286,388.00	
Research	570,908.68	
Forest Operations	28,728.04	
Chapel and Allied Services	30,154.24	
Scholarships and Fellowships	188,927.54	3,643,999.65
Student Health		79,421.40
Plant Operation		505,906.51
Faculty Retirement		49,188.96
Insurance		21,214.69
Duke University Press (Net)		25,415.62
Hospital Operating Deficit		246,259.66
Miscellaneous		199,337.39
Expended for Plant and Facilities :		
From Restricted Funds	641,006.39	
From Funds Functioning as Endowment	707,945.61	1,348,952.00
		<u>\$6,577,449.85</u>

## SCHEDULE A—ENDOWMENT FUNDS

	BOOK VALUE
ANGIER BUCHANAN DUKE ENDOWMENT FUND	
Established 1923 by bequest of Angier Buchanan Duke '05; to be added to the general endowment of the University.	\$ 255,867.41
B. N. DUKE ENDOWMENT FUND	
Established 1913 by gift from Benjamin Newton Duke; to be added to the general endowment of the University.	462,549.74
SARAH P. DUKE BEQUEST TO THE B. N. DUKE ENDOWMENT	
Established 1939 by bequest from Mrs. Sarah Pearson Duke; one-half of the net income to be used for the general purposes of the University; and one-half of the net income to be used for the establishment of the B. N. Duke Scholarships.	484,343.97
J. B. DUKE ENDOWMENT	
Established 1913 by gift from James Buchanan Duke; to be added to the general endowment of the University.	1,527,393.01
WASHINGTON DUKE ENDOWMENT	
Established 1897 by gift from Washington Duke; to be added to the general endowment of the University.	163,483.38
C. C. DULA ENDOWMENT	
Established 1927 by gift from Caleb C. Dula; to be added to the general endowment of the University.	205,901.14
GENERAL EDUCATION BOARD ENDOWMENT	
Established 1923 by gift from the General Education Board; to be added to the general endowment of the University.	301,414.31
GENERAL ENDOWMENT	
Established to accumulate sundry endowment gifts, the principal ones being from the General Education Board.	165,229.68
FLORENCE RAYMOND McALISTER CHAIR OF MEDICINE AND MEDICAL RESEARCH	
Established 1936 by gift from Mrs. Amelie McAlister Upshur, as a memorial to her sister.	204,700.90
W. R. PERKINS ENDOWMENT	
Established 1945 by bequest from William R. Perkins; to be added to the general endowment of the University.	150,000.00
TOTAL	<u>\$3,920,883.54</u>

**SCHEDULE B—ENDOWED SPECIAL FUNDS**

	BOOK VALUE
<b>AVERA BIBLE FUND</b>	
Established 1895 by gift of Mrs. L. B. McCullers in memory of her husband, Willis H. Avera; the income to be used for the purchase of books for the Divinity School Library and for the support of the Avera Bible Lectures.	\$ 2,860.19
<b>ISAAC ERWIN AVERY FUND</b>	
Established 1905 from the proceeds of the sale of the publication of "Idle Comments," a collection of the writings of Isaac Erwin Avery '94; the income to be used for the purchase of books in the field of journalism.	1,047.11
<b>JOHN SPENCER BASSETT MEMORIAL FUND</b>	
Established by miscellaneous gifts in memory of John Spencer Bassett, formerly Professor in Trinity College; the income to be used for the purchase of books for the Library.	625.73
<b>ROBERT SPENCER BELL STUDENT AID FUND</b>	
Established 1942 by Mr. James A. Bell '86, of Charlotte, N. C., in memory of his son, Robert Spencer Bell; the income to be used in providing annually a prize for one or more students evidencing the greatest improvement in his college work during the year.	8,840.00
<b>JOSEPH G. BROWN BOOK FUND</b>	
Established 1921 by gifts of various individuals in honor of Joseph G. Brown '75, chairman of the Board of Trustees 1917-27; the income to be used for the purchase of books for the Library.	4,681.26
<b>CENTENNIAL FUND GENERAL GIFTS</b>	
Gifts from a number of individuals in connection with the Centennial celebration of Duke University; the income to be used annually, in the judgment of the Trustees, for the benefit of the University.	34,812.04
<b>CHRISTIAN EDUCATION FUND</b>	
Miscellaneous contributions over a period of many years; to be used for various purposes designated by the donors.	4,382.61
<b>CLASS OF 1909 FUND</b>	
Established by members of the Class of 1909; the income to be used for the purchase of books for the General Library.	1,259.19
<b>CLASS OF 1910 FUND</b>	
Donation by members of the Class of 1910; to be used for the general purposes of the University.	146.48
<b>CLASS OF 1915 FUND</b>	
Miscellaneous donations by the members of the Class of 1915 in connection with the Centennial celebration of Duke University; to be used for the general purposes of the University.	1,311.12
<b>CLASS OF 1917 FUND</b>	
Miscellaneous contributions by the members of the Class of 1917; to be used for the general purposes of the University.	27.46
<b>CLASS OF 1918 FUND</b>	
Miscellaneous contributions by the members of the Class of 1918; for the general purposes of the University.	475.49

**Schedule B (Continued)—Endowed Special Funds**

CROWELL SCIENCE LECTURE FUND	BOOK VALUE
Established 1921 by contributions from various individuals; the income to be used for annual lectures on scientific subjects.	1,520.10
JULIA DALE MEMORIAL FUND	
Contributions by friends and relatives in memory of Miss Julia Dale; the income to be used to provide annually for the Julia Dale Prize in Mathematics.	705.32
DUKE MEMORIAL CHAPEL MAINTENANCE FUND	
Established 1930 by Mr. James A. Thomas; the proceeds to be used toward the maintenance of the Duke Memorial Chapel.	2,159.39
DUKE MONUMENT FUND	
Established to provide for the perpetual maintenance of the statue of Washington Duke.	1,256.52
ANNE FLEXNER MEMORIAL FUND	
Established October, 1947, by Dr. Morris Flexner and Mrs. Marion W. Flexner, in memory of their daughter, Anne Flexner '45; the income to be used for an annual award to the student who does the most outstanding piece of creative writing.	1,573.43
GEORGE WASHINGTON FLOWERS MEMORIAL FUND	
Established 1941 by bequest of William W. Flowers '94, in memory of his father, George Washington Flowers; the income to be used for the purchase of manuscripts, books and other printed or photographed materials dealing with the life and thought of the Southern states of the United States of America.	200,000.00
JOHN MCTYEIRE FLOWERS LECTURE FUND	
Established 1915 by gift of Mr. B. N. Duke in memory of John McTyeire Flowers; the income to be used for lectures dealing with the subject of Christian citizenship.	8,687.57
WILLIAM FRANCIS GILL MEMORIAL FUND	
Established 1918 by gifts of several individuals; in memory of William Francis Gill, for many years Professor of Latin in Trinity College; the income to be used for a collection of books in the General Library in the field of Latin.	979.45
P. HUBER HANES FUND	
Established 1939 by gift of P. Huber Hanes '00; the income to be used as follows: three-fifths for the support of the P. Huber Hanes Scholarships; one-fifth to the P. Huber Hanes, Jr. ('37) Scholarship; and one-fifth to the Duke University Press.	55,221.76
CHARLES W. HARGITT RESEARCH FELLOWSHIP IN ZOOLOGY	
Established 1939 by Dr. George T. Hargitt; the proceeds to be used for establishing a research fellowship in Zoology, to be named in memory of Charles W. Hargitt.	57,328.70
WINFRED QUINTON HOLTON MEMORIAL FUND	
Established 1922 by gifts of Holland Holton '07 and Mrs. Lela Young Holton '07, in memory of their son, Winfred Quinton Holton; the income to be used to provide a prize for investigative work in primary education.	1,220.03



**Schedule B (Continued)—Endowed Special Funds**

HENRY HARRISON JORDAN MEMORIAL FOUNDATION	BOOK VALUE
Established 1947 by gifts from Mrs. George Way, B. Everett Jordan '18, H. W. Jordan, Charles E. Jordan '23, Mrs. H. C. Sprinkle, Jr. '24, and Frank B. Jordan '27, children of Reverend Henry Harrison Jordan, of the residue of the estate of their father, supplemented by additional gifts; the income to be used for the support of the Ministers' Loan Library of the Duke Divinity School.	20,756.80
<b>LIBRARY ENDOWMENT FUND</b>	
Established 1939 by contributions from a number of individuals in connection with the Centennial celebration of Duke University; the income to be used for the General Library of Duke University.	2,747.33
<b>METHODIST COLLEGE ADVANCE FUND</b>	
Established by contributions from the Western North Carolina Conference and the North Carolina Conference of the Methodist Church; the income to be used for scholarships for young men and women preparing for full time service in the work of religious education, and for a program of educational service to ministers already in the field. This plan would permit the use of the funds for special conferences, expansion of the Ministers' Loan Library, short-term winter courses, and other services, particularly to rural churches.	17,488.76
<b>ALBERT MILMOW PRIZE IN ELECTRICAL ENGINEERING</b>	
Established 1935 by gift of Albert Milmow; the income to be used in providing annually a prize to the student in Electrical Engineering who shows the greatest progress in electrical engineering.	210.74
<b>ORMOND MEMORIAL FUND</b>	
Established 1924 by Dr. J. M. Ormond '02 and Mrs. Ormond, in memory of his mother and father, Mr. and Mrs. J. J. Ormond; the income to be used for the purchase of a collection of books on the rural church for the Library of the Divinity School at Duke University.	1,703.63
<b>PUBLICATIONS SINKING FUND</b>	
Established by the Publications Board of Duke University, to serve as a reserve for the publications operated under its direction.	19,580.02
<b>GRATTON WILLIAMS FUND</b>	
Established 1920 by bequest of Gratton Williams; the income to be used for the general purposes of Duke University, particularly for the development of the Library.	1,510.06
<b>JAMES J. WOLFE MEMORIAL FUND</b>	
Established 1921 by his friends and former students in memory of Dr. James J. Wolfe, Professor of Biology at Trinity College from 1904 until his death in June, 1920; the income to be used to purchase for the Library periodicals relating to biology.	1,898.75
<b>LIZZIE TAYLOR WRENN FOUNDATION</b>	
Established 1921 by gift from Mrs. May Wrenn Morgan '08 and her husband, John Allen Morgan '06, in memory of Mrs. Morgan's sister, Lizzie Taylor Wrenn '12; the income to be used for the purchase of books for the Library of Duke University.	1,548.16
<b>TOTAL</b>	<u>\$ 458,565.20</u>

## SCHEDULE C—STUDENT LOAN FUNDS

		BOOK VALUE
<b>ALUMNI LOAN FUND</b>		
Established 1915 by gift from the Alumni Association.		\$ 584.58
<b>PAUL M. BARRINGER BEQUEST FUND</b>		
Established 1932 by bequest from Paul M. Barringer; the income to be used in educating worthy young people; preference to be given those from Rowan County, N. C.		9,019.67
<b>BYNUM BELOTE LOAN FUND</b>		
Established 1924 by E. T. Belote of Asheville, N. C., in memory of his son, Alfred Bynum Belote, student 1923-24.		2,045.20
<b>A. D. BETTS LOAN FUND</b>		
Established 1919 by Reverend G. W. Vick '11 and wife, in memory of Reverend A. D. Betts, a member of the North Carolina Conference; other contributions by Reverend W. A. Betts and Mrs. L. P. Wilkins; to be used for the aid of young men preparing for the ministry.		988.33
<b>FANNIE CARR BIVINS MEMORIAL LOAN FUND</b>		
Established 1928 by the Alumnae Association in memory of Fannie Carr Bivins '96; income to be loaned to young women students upon the recommendation of the Alumnae Council and approval by Dean of Women.		2,231.66
<b>CHRISTIAN EDUCATION LOAN FUND</b>		
Established 1921 as a part of the Christian Education movement of the Methodist Church in North Carolina; for use as a general loan fund.		1,040.62
<b>CLASS OF 1902 LOAN FUND</b>		
Established 1932 by the members of the class at their 30th Anniversary Reunion.		341.75
<b>JESSE A. CUNINGGIM LOAN FUND</b>		
Established 1896 by Reverend J. A. Cuninggim '90; to be loaned to young men preparing for the ministry.		12,427.52
<b>ALEXANDER EDENS MEMORIAL LOAN FUND</b>		
Established 1920 by Lacy T. Edens '24, Cora R. Edens, John A. Edens, L. D. Edens '15, and L. F. Edens, in memory of Alexander Edens.		1,643.64
<b>SCHOOL OF FORESTRY LOAN FUND</b>		
Established 1940 by gifts of various persons; to be used for the aid of students in the School of Forestry.		477.50
<b>GENERAL LOAN FUND</b>		
Established 1900 by the North Carolina Conference, and supplemented from time to time by additional contributions by both the North Carolina Conference and the Western North Carolina Conference; to be used for no other purpose than to aid worthy students of the University.		59,009.22
<b>W. O. GOODE EDUCATIONAL LOAN FUND</b>		
Established 1923 by Reverend W. O. Goode of the Western North Carolina Conference.		834.61

## Schedule C (Continued)—Student Loan Funds

	BOOK VALUE
<b>MARY HESTER HAMBRICK LOAN FUND</b>	
Established 1925 by W. R. Hambrick, Haldah Satterfield, John Jackson Hambrick '16, and Dr. Robert T. Hambrick '19, in memory of Mary Hester Hambrick, wife and mother; loans to be made to any needy students, preferably from Person County, N. C.	1,064.95
<b>P. FRANK HANES LOAN FUND</b>	
Established 1934 by P. Frank Hanes '11; administered by a Loan Fund Committee of the Law School; loans to needy and deserving law students.	1,277.36
<b>B. D. HEATH LOAN FUND</b>	
Established 1921 by B. D. Heath of Charlotte, N. C.; income to be used for students preparing for the ministry, preference to be given to one student annually from Union County, N. C.	7,004.61
<b>HOLLAND HOLTON MEMORIAL LOAN FUND</b>	
Established March, 1948, by friends and former students in memory of Holland Holton '07, Professor of Education and Director of the Summer School of Duke University for many years; to be used in helping worthy young men and women in securing a college education.	1,545.50
<b>J. B. IVEY LOAN FUND</b>	
Established 1922 by J. B. Ivey of Charlotte, N. C.; to be used for loans for worthy students.	1,588.64
<b>W. K. KELLOGG FOUNDATION LOAN FUND FOR MEDICAL STUDENTS</b>	
Established 1942 by gift of the W. K. Kellogg Foundation; to be used for loans to medical students.	15,771.25
<b>W. K. KELLOGG FOUNDATION LOAN FUND FOR MEDICAL TECHNOLOGY</b>	
Established 1943 by gift of the W. K. Kellogg Foundation; to be used for loans to students in the field of medical technology.	2,000.00
<b>W. K. KELLOGG FOUNDATION LOAN FUND FOR NURSES</b>	
Established 1942 by gift of the W. K. Kellogg Foundation; to be used for loans to students in the School of Nursing.	3,012.29
<b>W. K. KELLOGG FOUNDATION LOAN FUND FOR PHYSICAL THERAPY</b>	
Established 1943 by gift of the W. K. Kellogg Foundation; to be used for loans to students receiving training in physical therapy.	4,000.00
<b>MASONIC LOAN FUND</b>	
Established 1923 by the Grand Lodge of Masons of North Carolina.	1,777.56
<b>MEDICAL STUDENTS LOAN FUND</b>	
Established 1941 by gifts of various persons.	148.40
<b>MINISTERIAL EDUCATION LOAN FUND</b>	
Established 1915 by the North Carolina Conference of the Methodist Church; to be used for loans to students preparing for the ministry.	2,245.36

## Schedule C (Continued)—Student Loan Funds

WILLIAM NEAL STUDENT AID FUND	BOOK VALUE
Established 1920 by John W. Neal in memory of his son, William Neal, student in 1919; to be used for loans to worthy and needy students.	1,995.53
NORTH CAROLINA CONFERENCE BOARD OF CHRISTIAN EDUCATION LOAN FUND	
Established 1931 by gift of the Board of Christian Education of the North Carolina Conference; to be used for loans to students preparing for the ministry, or other distinctive type of Christian service.	3,152.12
W. N. REYNOLDS LOAN FUND	
Established by W. N. Reynolds '86 of Winston-Salem, N. C.; to be used for loans to boys and girls of North Carolina seeking an education at Duke University; preference, however, to be given to graduates of the Nancy Cox Reynolds Memorial School, and the sons of employees of the R. J. Reynolds Tobacco Company, regardless of residence.	318,601.99
ROANOKE RAPIDS HIGH SCHOOL LOAN FUND	
Established 1925 by the graduating class of the Roanoke Rapids High School, Roanoke Rapids, N. C.; to be used for loans to students who are graduates of that school.	331.22
STUDENT WAR LOAN FUND	
Consists of funds advanced by the United States Office of Education to students pursuing an accelerated course in a strategic field during World War II, and consisting entirely of student notes outstanding.	8,586.08
ELLA WESCOTT TUTTLE LOAN FUND	
Established 1923 by Reverend D. H. Tuttle '80 in memory of his wife, Ella Wescott Tuttle; to be used for loans to worthy young women seeking an education at Duke University.	1,798.45
JOSHUA VICK MEMORIAL LOAN FUND	
Established 1920 by Mrs. J. W. Vick in memory of her husband, Joshua Vick; to be used for loans to needy students.	944.80
WAKE COUNTY ALUMNAE LOAN FUND	
Established 1924 by the Raleigh Chapter of the Alumnae Association; to be used for loans to worthy women students.	1,229.81
WINSTON-SALEM DISTRICT OF NORTH CAROLINA CONFERENCE LOAN FUND	
Established 1923 by the Winston-Salem District of the Western North Carolina Conference of the Methodist Church; to be used for loans to students preparing for the ministry from the Winston-Salem District.	2,044.97
MARY POAGE WOOTEN LOAN FUND	
Established 1922 by Reverend John C. Wooten '98, in memory of his wife, Mary Poage Wooten; to be used for loans to worthy students.	1,037.32
TOTAL	<u>\$ 471,802.51</u>



**SCHEDULE D—SCHOLARSHIP FUNDS**

	BOOK VALUE
<b>FRED SOULE ALDRIDGE SCHOLARSHIP FUND</b>	
Established December, 1947 by gift of Fred S. Aldridge '98 and Mrs. Aldridge; the income to be used for scholarship aid to worthy students.	\$ 1,118.64
<b>GEORGE G. ALLEN SCHOLARSHIP FUND</b>	
Established July, 1947 by gift of Mr. George G. Allen; the income to be used for scholarship aid to deserving boys and girls from Warren County, N. C., and, under certain conditions, for other worthy students.	29,717.12
<b>ALUMNAE SCHOLARSHIP FUND</b>	
Established May, 1940 by the Alumnae Association, in connection with the celebration of the Centennial of Duke University; the income to be used for scholarship aid to young women students of the Woman's College.	2,878.54
<b>ALUMNI MEMORIAL SCHOLARSHIP FUND</b>	
Established December, 1943 by several donors, in memory of alumni of Duke University who lost their lives during World War II; the income to be used for scholarship aid to worthy students.	1,908.84
<b>ATLANTA ALUMNI SCHOLARSHIP FUND</b>	
Established May, 1941 by gifts of members of the Alumni Association of Atlanta, Ga.; the income to be used for scholarship aid to worthy students.	3,445.90
<b>ALICE M. BALDWIN SCHOLARSHIP FUND</b>	
Established June, 1945 and supplemented from time to time, by gifts from students and alumnae in honor of Alice M. Baldwin, Dean of the Woman's College, 1923-1947; to be used for scholarship aid to undergraduate students in the Woman's College.	12,108.57
<b>BANKS-BRADSHAW SCHOLARSHIP FUND</b>	
Established 1913 by gift of Messrs. W. L. Banks and Mike Bradshaw '78; the income to be used for scholarship aid to worthy students.	1,901.14
<b>HERBERT J. BASS SCHOLARSHIP</b>	
Established 1900 by gift of Mr. and Mrs. Herbert J. Bass of Durham, N. C., in memory of their son, Herbert J. Bass, Jr.; the income to be used for scholarship aid to worthy students.	2,046.91
<b>EDGAR S. BOWLING SCHOLARSHIP FUND</b>	
Established 1928 by gift of Edgar S. Bowling '99 in memory of his sister, Mrs. Maye Bowling Bennett '12; the income to be used for scholarship aid, preference to be given to boys and girls from Durham and adjoining counties.	35,156.34
<b>CENTENNIAL SCHOLARSHIP FUND</b>	
Established 1939 by gifts from several donors in connection with the Centennial celebration of Duke University; the income to be used for scholarship aid to worthy students.	7,835.34
<b>CHRISTIAN EDUCATION SCHOLARSHIP FUND</b>	
Established by various contributions designated for scholarships in the Christian Education Movement, and includes contributions from Julian S. Carr, Mrs. Annie A. Foushee, C. T. Johnson, H. E. Myers, the Pegram Family, W. P. Suggs,	

**Schedule D (Continued)—Scholarship Funds**

	BOOK VALUE
E. T. White, Mr. and Mrs. J. C. Braswell and Mrs. R. C. Bruton, in memory of Alexander Walker; the Alumni of Harnett County, and others; the income to be used for scholarship aid to worthy students.	7,032.26
<b>CLASS OF 1906 SCHOLARSHIP FUND</b>	
Established July, 1937 by gifts from several members of the Class of 1906; the income to be used for scholarship aid to worthy students.	1,129.75
<b>CLASS OF 1912 SCHOLARSHIP FUND</b>	
Established by gifts from several members of the Class of 1912; the income to be used for scholarships to worthy students.	692.67
<b>CLASS OF 1914 SCHOLARSHIP FUND</b>	
Established December, 1938 during the Centennial celebration of Duke University, by various members of the Class; the income to be used for scholarship aid to worthy students, preference to be shown to descendants of the members of the Class of 1914.	3,092.21
<b>CLASS OF 1918 SCHOLARSHIP FUND</b>	
Established by gifts from several members of the Class of 1918; the income to be used for scholarship aid to worthy students.	411.05
<b>E. M. COLE FOUNDATION</b>	
Established 1920 by E. M. Cole, Charlotte, N. C.; the income to be used for scholarships for the benefit of undergraduate students preparing for the ministry.	17,635.38
<b>ELIZABETH CROWELL CARNES FOUNDATION</b>	
Established January, 1948 by bequest of Elizabeth Crowell Carnes, in memory of her parents, Jonas William Crowell and Virginia Vick Crowell; the income to be used for scholarship aid for young men and women of Duke University.	4,725.00
<b>WILL L. CUNINGGIM SCHOLARSHIP</b>	
Established 1934 by bequest of Mrs. W. L. Cuninggim, and supplemented by bequest of Mrs. Albert Bourne, in memory of Reverend Will L. Cuninggim; the income to be used for scholarship aid, preference being given to graduates of the Methodist Orphanage, Raleigh, N. C.	9,717.20
<b>ROSE M. DAVIS SCHOLARSHIP FUND</b>	
Established 1941 by Dr. Rose M. Davis; the income to be used for scholarship aid.	267.97
<b>DIVINITY SCHOOL MISCELLANEOUS SCHOLARSHIP FUND</b>	
Contributions by various churches and individuals for use currently for scholarship aid to designated individuals.	1,400.00
<b>JERE R. DOWNING SCHOLARSHIP FUND</b>	
Established 1936 by Mrs. Alice M. Downing and her son, J. Robert Downing '35, as a memorial to their husband and father, Jere R. Downing of Kennebunk, Me.; the income to be used for scholarship aid, preference to be given to students from New England.	1,507.41

**Schedule D (Continued)—Scholarship Funds**

	BOOK VALUE
<b>DUKE DAD'S DAY SCHOLARSHIP FUND</b>	
Established 1941 by contributions of fathers attending the Duke Dad's meeting; to be used for scholarship aid.	317.91
<b>B. N. DUKE SCHOLARSHIP FUND</b>	
Established 1939 by bequest of Mrs. Sarah P. Duke in memory of her husband, Benjamin N. Duke; comprised of one-half of the income earned by the bequest of Sarah P. Duke to the B. N. Duke Endowment Fund; to be used for scholarship aid to worthy and needy students of Duke University.	63,944.91
<b>DUKE UNIVERSITY SUNDRY SCHOLARSHIPS</b>	
Gifts by miscellaneous donors for current use as scholarships.	200.00
<b>DURHAM COUNTY ALUMNI SCHOLARSHIP FUND</b>	
Established 1947 by gifts from various alumni of Durham County; the income to be used for scholarship aid to students from Durham County.	1,758.08
<b>N. EDWARD EDGERTON SCHOLARSHIP FUND</b>	
Established May, 1940 by gift of N. Edward Edgerton '21 of Raleigh, N. C.; to be used only for scholarship aid to candidates for the B.D. degree in the Divinity School of Duke University.	7,148.62
<b>ENGINEERING SCHOLARSHIP FUND</b>	
Established by gifts of various persons; to be used for scholarship aid to engineering students.	212.83
<b>WILLIAM P. FEW MEMORIAL SCHOLARSHIP</b>	
Established 1942 by gifts from various persons; to be used for scholarship aid to worthy students.	705.35
<b>ARTHUR ELLIS FLOWERS SCHOLARSHIP</b>	
Established 1901 by Col. and Mrs. George W. Flowers, in memory of their son, Arthur Ellis Flowers; the income to be used for scholarship aid to worthy students.	1,415.39
<b>GEORGE W. FLOWERS SCHOLARSHIP FUND</b>	
Established June, 1927 by gift of Claude M. Flowers '09, in memory of his father, Col. Geo. W. Flowers, for many years a Trustee of Trinity College; the income to be used for scholarship aid to needy and worthy students.	6,362.04
<b>ROBERT L. FLOWERS SCHOLARSHIP FUND</b>	
Established May, 1939 by gift of R. L. Flowers; income to be used for scholarship aid to worthy students.	1,490.77
<b>GENERAL UNIVERSITY SCHOLARSHIP FUND</b>	
Miscellaneous gifts from numerous persons; to be used currently for scholarship aid to worthy students.	12,702.00
<b>JAMES A. GRAY FUND</b>	
Established 1947 by James A. Gray of Winston-Salem, with the Wachovia Bank and Trust Company as Trustee; the income derived from the Trust to be used for the following purposes:	
1. Clinical training of students in actual church work under the supervision of the Divinity School.	

**Schedule D (Continued)—Scholarship Funds**

	BOOK VALUE
2. Seminars designed to help ministers in this area toward a more effective ministry in the church.	
3. Providing leadership for the Christian Convocation which is held annually at Duke University.	1,900.03
<b>GUILFORD COUNTY SCHOLARSHIP FUND</b>	
Established 1941 by miscellaneous gifts of several persons; the income to be used for scholarship aid to worthy students.	151.50
<b>A. H. GWYNN SCHOLARSHIP FUND</b>	
Established May, 1941 by Judge A. H. Gwynn '18; the income to be used for scholarship aid to worthy students.	247.50
<b>P. HUBER HANES SCHOLARSHIP FUND</b>	
Established 1939; consisting of 3/5 of the income accruing annually to the P. Huber Hanes Fund; to be used for scholarship aid; one scholarship in the School of Religion; two scholarships to members of the families of Alumni; and two general scholarships.	4,912.59
<b>P. HUBER HANES, JR., SCHOLARSHIP FUND</b>	
Established 1939; consisting of 1/5 of the income accruing annually to the P. Huber Hanes Fund; to be used for two scholarships for junior or senior students majoring in Business Administration.	3,225.06
<b>B. D. HEATH SCHOLARSHIP FUND</b>	
Established 1903 by B. D. Heath; to be used for scholarship aid to worthy students from Union County, N. C.	3,211.13
<b>HIGH POINT SCHOLARSHIP FUND</b>	
Established by gifts of members of the High Point Alumni Association, in connection with the celebration of the Centennial of Duke University; the income to be used for scholarship aid for students who are graduates of the High Point, N. C., High School.	5,605.62
<b>HUNTER JONES SCHOLARSHIP FUND</b>	
Established December, 1947 by gift of Hunter Jones '19, Durham, N. C.; the income therefrom to be used for scholarship aid to worthy students.	2,037.28
<b>HENRY HARRISON JORDAN MEMORIAL SCHOLARSHIP FUND</b>	
Established December, 1938 by gifts from Mrs. George Way, B. Everett Jordan '18, H. W. Jordan, Charles E. Jordan '23, Mrs. H. C. Sprinkle, Jr., '24, and Frank B. Jordan '27, in memory of their father, Reverend Henry Harrison Jordan, a member of the Western North Carolina Conference; the income to be used for scholarship aid to worthy students.	7,882.06
<b>JOSTEN'S SCHOLARSHIP FUND</b>	
Contributions by Josten's; to be used currently for scholarship aid for worthy students.	750.00
<b>J. M. JUDD SCHOLARSHIP FUND</b>	
Established 1922 by Dr. J. M. Judd '95, of Varina, N. C., with directions that the earnings be allowed to accumulate until such time as they are sufficient to provide a four-year tuition scholarship.	1,869.73



**Schedule D (Continued)—Scholarship Funds**

GURNEY HARRISS KEARNS SCHOLARSHIP FUND*	BOOK VALUE
Established 1935 by gifts of Mr. and Mrs. Gurney Harriss Kearns '97, High Point, N. C., supplemented by Amos R. Kearns '27 and Charles L. Kearns '32, and Katherine Kearns Cheek; the income to be used for one or more fellowships for advanced graduate study and research in the field of American religious thought and practice at Duke University.	55,230.31
W. K. KELLOGG FOUNDATION SCHOLARSHIP FUND FOR NURSES	
Established by contribution by the W. K. Kellogg Foundation; the entire sum to be used currently for scholarship aid to students in training in the School of Nursing.	900.00
W. K. KELLOGG FOUNDATION SCHOLARSHIP FUND FOR TECHNICIANS	
Established by contribution by the W. K. Kellogg Foundation; the entire sum to be used currently for scholarship aid to students preparing as medical technicians.	2,000.00
FRANK S. LAMBETH SCHOLARSHIP FUND	
Established 1930 by bequest of Col. Frank S. Lambeth '80; the income to be used for scholarship aid to worthy students of Duke University.	1,557.53
D. M. LITAKER SCHOLARSHIP FUND	
Established 1946 by gift of Mr. Charles H. Litaker '28, in memory of his father, Dr. D. M. Litaker '90, who for 47 years was an active minister in the Methodist Church; the income and, under certain conditions, a part of the corpus of the fund to be used for scholarship aid for undergraduate students, natives of the territory now embraced by the Western North Carolina Conference, who are preparing for the ministry.	8,449.12
MARY ELIZABETH DUKE LYON SCHOLARSHIP FUND	
Established 1942 by Mrs. Mary Washington Stagg, in memory of her mother, Mary Elizabeth Duke Lyon; the income to be used for scholarship aid for worthy students.	5,835.76
THE McALISTER SCHOLARSHIP FUND	
Established December, 1935 by Mrs. Amelie McAlister Upshur in memory of her mother, Armantine Reynaud McAlister, and father, William Henry McAlister; the income to be used annually for a scholarship for one boy and one girl from each of the three states of North Carolina, South Carolina and Louisiana.	123,683.07
McCRACKEN MEMORIAL SCHOLARSHIP FUND	
Established 1945 by Thomas W. McCracken '15; the income to be used for scholarship aid for worthy students.	5,530.14
J. H. McCRACKEN MEMORIAL SCHOLARSHIP FUND	
Established 1947 by Dr. J. H. McCracken '22 and contributions from members of the First Methodist Church of Henderson, N. C., in memory of Reverend J. H. McCracken '92, for many years a member of the North Carolina Conference; income to be used for scholarship aid.	1,018.64

\* Since the close of the fiscal year, this fund has been increased by additional contributions from members of the family to a total of \$70,000.00.



## Schedule D (Continued)—Scholarship Funds

THE O. G. B. McMULLAN SCHOLARSHIP FUND	BOOK VALUE
Established 1913 by gift of Mr. O. G. B. McMullan of Elizabeth City, N. C.; the income to be used for scholarship aid for worthy students, preference to be given to residents of Perquimans and Pasquotank Counties, N. C.	1,916.12
R. A. MAYER SCHOLARSHIP FUND	
Established 1939 by gift of R. A. Mayer '96, in memory of his father, Minor C. Mayer, and mother, Sarah R. Mayer, in connection with the Centennial celebration of Duke University, and supplemented subsequently by additional gifts; the income to be used for scholarship aid for worthy students, preference to be given to students from Mecklenburg County, N. C.	10,597.54
W. H. MOORE SCHOLARSHIP FUND	
Established 1920 in memory of Dr. W. H. Moore '71, by his wife, Mrs. W. H. Moore, and daughters, Mrs. W. E. Steele, Miss Maude Moore, Mrs. T. L. Parsons, Mrs. J. H. Ihrie, and Mrs. J. LeGrand Everett; the income to be used for scholarship aid to worthy students.	1,689.76
MYERS PARK SCHOLARSHIP FUND	
Established 1948 by contributions of the members of the congregation of the Myers Park Methodist Church, Charlotte, N. C.; the income to be used for the benefit of the Divinity School.	6,080.00
J. A. ODELL SCHOLARSHIP FUND	
Established 1897 by gift of Mr. James A. Odell; the income to be used for scholarship aid to worthy students.	1,976.12
J. M. ODELL SCHOLARSHIP FUND	
Established 1897 by gift of Captain J. M. Odell; the income to be used for scholarship aid to worthy students.	1,871.12
W. R. ODELL SCHOLARSHIP FUND	
Established 1940 by gifts from Fred C. Odell '02, Mrs. Ralph M. Odell, Arthur G. Odell '06, and others, in memory of William R. Odell '75, for more than 50 years a member of the Board of Trustees of Duke University; the income to be used for scholarship aid for worthy students.	6,325.63
THE W. R. ODELL DIVINITY SCHOLARSHIP FUND	
Established June, 1946 by members and friends of the Forest Hills Methodist Church, Concord, N. C., in memory of William R. Odell '75; the income to be used for scholarship aid for students preparing for the Methodist ministry.	6,483.47
HENRY A. PAGE SCHOLARSHIP FUND	
Established January, 1942 by gift of Henry A. Page, Jr. '07, and Gertrude Wetherill Page, in memory of his father, Henry A. Page, for many years a member of the Board of Trustees of Duke University; the income to be used for scholarship aid to worthy students, preferably those preparing for the study of medicine.	13,239.16
EDWARD JAMES PARRISH SCHOLARSHIP FUND	
Established 1921 by Mrs. Rosa Brown Parrish, in memory of her husband, Edward J. Parrish; the income to be used for scholarship aid to worthy students.	1,408.25

**Schedule D (Continued)—Scholarship Funds**

	BOOK VALUE
<b>JOHN T. RING SCHOLARSHIP FUND</b>	
Established 1919 by gift of Mr. S. G. Ring and family of Kernersville, N. C., in memory of John T. Ring '16, who was killed in France during World War I; the income to be used for scholarship aid for worthy students.	1,784.55
<b>T. V. ROCHELLE SCHOLARSHIP FUND</b>	
Established 1945 by T. V. Rochelle '14, High Point, N. C., and supplemented annually; the income to be used for scholarship aid for a worthy and needy student who is a graduate of the High Point, N. C., High School.	3,105.97
<b>ELBERT RUSSELL DIVINITY SCHOOL SCHOLARSHIP FUND</b>	
Established 1943, and since that time supplemented annually, by gifts from friends and alumni of the Divinity School, in honor of Elbert Russell, Dean and Professor of Biblical Interpretation of the Divinity School, 1926-1945; the income to be used for scholarship aid for students preparing for the ministry in the Divinity School.	5,622.02
<b>SCHOLARSHIP FUND</b>	
Established 1939 by an anonymous donor, and supplemented from time to time; the fund to be allowed to accumulate until such time as the donor may designate the use of the income for scholarship purposes.	6,784.97
<b>J. RAYMOND SMITH SCHOLARSHIP FUND</b>	
Established 1939 by J. Raymond Smith '17, Mt. Airy, N. C., in connection with the Centennial celebration of Duke University; the income to be used for scholarship aid to worthy students.	6,872.74
<b>HERSEY EVERETT SPENCE SCHOLARSHIP FUND</b>	
Established December, 1947 by gifts of members of the Methodist Church of Sanford, N. C., through the Methodist College Advance Fund, in honor of Hersey Everett Spence '07, former pastor of that church and a member of the faculty of the Divinity School of Duke University.	5,093.20
<b>THOMASVILLE SCHOLARSHIP FUND</b>	
Established 1940 by gifts of T. Austin Finch '09, and J. Walter Lambeth '16, by contributions made through the Centennial Fund; the income to be used for scholarship aid for worthy students.	1,738.94
<b>MARY NEWBY TOMS SCHOLARSHIP FUND</b>	
Established 1906 by gift of Mr. Clinton W. Toms and supplemented from time to time by additional gifts; in May, 1947, in connection with supplemental gifts to the Fund, it was established as a permanent endowment in memory of his wife, Mary Newby Toms; the income to be used for scholarship aid for worthy students, preference to be given to students from Durham and Perquimans Counties, N. C.	112,791.90
<b>GEORGE W. WATTS SCHOLARSHIP FUND</b>	
Established 1897 by gift of Mr. George W. Watts; the income to be used for scholarship aid to worthy students.	1,911.12
<b>WEATHERBY SCHOLARSHIP FUND</b>	
Established 1912 by C. E. Weatherby, Faison, N. C.; the income to be used for scholarship aid to worthy students.	1,821.12
<b>TOTAL</b>	<u><u>\$ 677,096.91</u></u>

## SCHEDULE E—EXPENDABLE FUNDS

<i>Particulars</i>	<i>Balance June 30, 1947</i>	<i>Increase</i>	<i>Decrease</i>	<i>Balance June 30, 1948</i>
Abbott Fellowship in Biochemistry.....	\$ 187.50	\$ .....	\$ .....	\$ 187.50
Allied Chemical & Dye Corp. Fellowship.....	115.00	1,580.00	1,100.00	595.00
Alumni Activities Fund.....	2,592.86	168.00	.....	2,760.86
American Foundation for Tropical Medicine				
Fungus Research Fund.....	935.00	2,900.00	3,042.59	792.41
Anatomy Dept. Postgraduate Fund.....	1,100.00	800.00	240.00	1,660.00
Army Air Forces Respiratory Research Fund....	.....	4,473.90	4,473.90	.....
Art Museum Fund.....	64.00	.....	.....	64.00
Ayerst, McKenna & Harrison Endocrine Fund..	2,322.85	750.00	1,067.26	2,005.59
Ayerst, McKenna & Harrison Illustration Fund..	3,600.00	3,600.00	6,253.33	946.67
Mona Ames Bagby Memorial.....	75.30	.....	16.00	59.30
Baptist Activities Fund.....	.....	400.00	250.00	150.00
Dorothy Beard Research Fund.....	158,874.27	21,346.45	5,704.16	174,516.56
Borden Undergraduate Research Award in				
Medicine.....	1,502.50	2,510.02	1,000.00	3,012.52
Frank C. Brown Folklore Collection.....	5,667.67	500.00	316.75	5,850.92
G. W. Burch Research Fund.....	30.00	.....	.....	30.00
Carbide & Carbon Chemical Corp. Fellowship				
in Organic Chemistry.....	1,517.50	2,300.00	2,072.50	1,745.00
Carillon Fund.....	1,978.06	19.83	.....	1,997.89
Carnegie Foundation for Advancement of				
Teaching Fund.....	11,337.41	10,000.00	6,509.76	14,827.65
Carnegie Regional Library Program.....	4,528.49	.....	28.49	4,500.00
Carroll Psychiatry Fund.....	.....	31,524.00	.....	31,524.00
Chemical Warfare Mildew Research Fund.....	.....	12,961.88	12,961.88	.....
Chemical Warfare Service Antibiotics.....	940.59	2,483.89	3,424.48	.....
Ciba Coramine Fund.....	615.00	.....	.....	615.00
Ciba Hypertension Research Fund.....	2,770.86	3,125.00	4,956.67	939.19
Clark & Clark Research Fund.....	.....	200.00	90.00	110.00
Class of 1921 Fund.....	281.00	(281.00)	.....	.....
Class of 1922 Fund.....	4,094.32	905.63	5,000.00	.....
Class of 1938 Fund.....	91.50	(91.50)	.....	.....
Thomas Costis Deposit Acct.....	5,010.00	40.10	1,000.00	4,050.10
Braxton Craven Portrait Fund.....	41.92	.....	.....	41.92
Crippled Children Spastic Orthopedic Fund....	26,118.32	250.65	3.24	26,365.73
Davis & Geck Research Fund.....	.....	483.50	.....	483.50
Dept. of Pathology Neuropathologic Fund.....	.....	1,000.00	643.68	356.32
Dept. of Physics Equipment Fund.....	750.00	.....	.....	750.00
Dept. of Physics Student Assistants Fund.....	100.00	.....	.....	100.00
Dept. of Surgery Fund.....	44,441.46	55,727.12	.....	100,168.58
Distillation Products Research Fund.....	(42.33)	42.33	.....	.....
Divinity School Fund.....	2,308.76	2,693.12	2,932.52	2,069.36
Division of Cooperation in Education and				
Race Relations Fund.....	468.96	(468.96)	(5.17)	5.17
J. B. Duke Church Extension Fund.....	12,784.27	323.68	.....	13,107.95
Duke Endowment Building Fund.....	(70,498.12)	471,225.62	400,727.50	.....
Duke Forest Fund.....	29,714.35	18,505.73	28,728.04	19,492.04
Duke Homestead Fund.....	3,007.50	30.08	.....	3,037.58
Duke Hospital Social Service Fund.....	12,359.81	22,310.83	23,208.84	11,461.80
Duke Memorial Fund.....	1,013.98	.....	67.72	946.26
Duke Memorial Etching Fund.....	664.75	1,354.00	744.70	1,274.05
Duke University Building Fund.....	(231,017.72)	798,054.81	567,037.09	.....
Duke University Loyalty Fund.....	.....	107,855.89	(124.38)	107,980.27
Duke University Student Project Fund.....	.....	316.00	316.00	.....
DuPont Postgraduate Fellowship in Chemistry..	3,368.50	2,800.00	1,941.00	4,227.50
Eli Lilly Fellowship in Chemistry.....	583.35	1,000.00	999.96	583.39

## Schedule E (Continued)—Expendable Funds

Particulars	Balance		Decrease	Balance
	June 30, 1947	Increase		June 30, 1948
Charles A. Ellwood Gift.....	10.00	.....	.....	10.00
Episcopal Activities Fund.....	.....	200.00	199.98	.02
Fluorine Defense Research Fund.....	83.36	.....	.....	83.36
Forestry School Forest Utilization Fund.....	1,035.50	.....	.....	1,035.50
Friends of Duke University Library Fund.....	584.88	426.28	359.14	652.02
General Alumni Fund.....	8,996.20	29.09	3,555.53	5,469.76
General Education Board: Cooperative				
Marketing Project.....	1,967.39	5,382.61	5,733.97	1,616.03
Forestry Research Fund.....	890.36	1,178.88	822.51	1,246.73
Grant for Marine Laboratory.....	500.00	.....	.....	500.00
Study of Forest Ecology Fund.....	1,821.12	3,000.00	2,139.13	2,681.99
Soil Site Study Fund.....	5,129.90	7,044.87	5,851.89	6,322.88
Land Tenure Systems Fund.....	.....	7,500.00	6,464.98	1,035.02
General Library Addition Fund.....	210,843.26	358,455.22	358,439.46	210,859.02
General Research Fund.....	1,417.69	69.81	.....	1,487.50
Gifts for Research in Obstetrics & Gynecology..	8,575.28	1,058.26	.....	9,633.54
William Glasson Gift Fund.....	14.96	.....	.16	14.80
Gottesman Foundation Fund.....	1,000.00	2,350.00	191.25	3,158.75
Graduate Fellowship in Religion Fund.....	2,300.00	.....	1,700.00	600.00
Graduate School Thesis Fund.....	1,723.99	.....	25.00	1,694.99
Anna H. Hanes Research Fund.....	128,173.39	108,212.79	20,281.44	216,108.74
Elizabeth P. Hanes Annuity Fund.....	314,019.66	15,732.20	40,000.00	289,751.86
Elizabeth P. Hanes Building Fund.....	724,398.19	35,857.80	.....	760,255.99
F. M. Hanes Bequest to Dept. of Medicine				
Fund.....	.....	9,000.00	.....	9,000.00
F. M. Hanes Bequest to Duke Medical School				
Fund.....	.....	9,000.00	3,787.50	5,212.50
Dr. Fred M. Hanes Garden Memorial Fund....	797.50	25.00	.....	822.50
P. Huber Hanes Publication Fund.....	2,805.00	420.05	.....	3,225.05
A. P. Harriss Fund for Nursing Moribund				
Patients.....	21,575.63	29,376.53	14,882.91	36,069.25
Heinz Hiller Deposit.....	.....	3,000.00	.....	3,000.00
Horneman Research Fund.....	.....	5,000.00	2,354.19	2,645.81
Industrial Research Fund.....	5,345.95	10,000.00	5,606.66	9,739.29
W. K. Kellogg Foundation Postgraduate				
Medical Education Fund.....	3,750.00	5,625.00	6.00	9,369.00
Law Library Book Fund.....	1,335.00	.....	1,091.60	243.40
Lederle Grants:				
Beard Hog Cholera Fund.....	31,936.43	16,613.12	21,991.42	26,557.13
Electron Microscope Fund.....	374.07	.....	3.11	370.96
Fellowship in Biochemistry.....	1,468.64	.....	124.62	1,344.02
Susan G. Smith Pellagra Research Fund....	.....	2,000.00	1,559.61	440.39
Robert E. Lee Prize Fund.....	50.00	.....	.....	50.00
Library Fee Fund.....	111,065.27	45,336.22	51,464.46	104,937.03
Library Special Collections Fund.....	25.00	.....	.....	25.00
Life Insurance Medical Research Fund:				
Cardiac Studies.....	5,682.33	16,800.00	18,530.14	3,952.19
Grant to Dr. Kempner.....	8,977.64	.....	8,977.64	.....
Protein Research.....	2,781.57	525.00	3,066.78	239.79
Lilly Insulin Research Fund.....	.....	6,000.00	3,483.71	2,516.29
James F. Lincoln Arc Welding Foundation....	2.84	.....	.....	2.84
Little Theater Movement Fund.....	75.00	.....	.....	75.00
Lost Book Fund.....	4,617.25	587.73	(413.74)	5,618.72
Lutheran Activities Fund.....	.....	600.00	400.00	200.00
Mary Elizabeth Duke Lyon Fund.....	364.84	.....	40.49	324.35
William McDougall Research Fund.....	34,104.73	34,978.11	15,742.26	53,340.58



## Schedule E (Continued)—Expendable Funds

Particulars	Balance June 30, 1947	Increase	Decrease	Balance June 30, 1948
The Maltine Company Ulcer Research Fund.....	267.88		245.63	22.25
John and Mary R. Markle Foundation "B"				
Complex Studies Fund.....	891.08		51.31	839.77
John and Mary R. Markle Foundation:				
Fungus Research Fund.....	2,540.53		1,230.00	1,310.53
Nicotinic Acid Research Fund.....	1,058.57	1,600.00	1,399.51	1,259.06
Pellagra Research Fund.....	7.44			7.44
Digestive Tract Research Fund.....	3,500.00	3,500.00	1,419.22	5,580.78
Fund for Studies of Mild or Early				
Deficiency States.....	815.33	3,000.00	2,880.83	934.50
Sprue Studies Research Fund.....	2,900.25	3,000.00	2,029.22	3,871.03
Mathematics Mural Fund.....	600.00			600.00
Charles B. Mayer Fellowship Fund.....	196.67			196.67
Medical Illustration Fund.....		2,000.00	262.38	1,737.62
Medical Research Fund.....	4,064.85	199.23		4,264.08
Methodist Activities Fund.....	2,462.67	4,500.00	3,933.38	3,029.29
National Institute of Health:				
Amino Acid Research Fund.....	1,133.37		1,131.21	2.16
"B" Complex Research Fund.....		4,567.42	4,567.42	
Enzyme Research Fund.....	630.91	11,860.49	11,587.79	903.61
Fungus Research Fund.....	2,926.38	3,592.58	3,871.46	2,647.50
Heart Reaction Fund.....	589.36	(251.61)*	337.75	
Penicillin Research Fund.....	2,617.19	3,064.23	5,681.42	
Research of Dr. Wharton.....		7,905.00	6,821.71	1,083.29
Syphilitic Research Fund.....	701.77	11,478.23	8,671.97	3,508.03
National Tuberculosis Metabolism Fund.....		500.00	499.98	.02
National Research Council Metabolism Fund...		2,500.00	2,178.59	321.41
National Foundation for Infantile Paralysis				
Fund.....	10,273.63	14,022.29*	13,512.12	10,783.80
Naval Research Laboratory:				
Fluorine Research Fund.....		22,354.79	22,354.79	
Battery Research Fund.....		13,318.57	13,318.57	
Helium Research Fund.....		1,483.83	1,483.83	
Nutrition Foundation:				
Biotin Therapy Fund.....	615.83		514.27	101.56
Choline Deficiency Fund.....	(358.15)	358.15		
Nicotinic Acid Research Fund.....	205.05	4,500.00	2,364.75	2,340.30
Dr. Perlzweig Research Fund.....	83.64	1,500.00	1,349.08	234.56
Parathyroid Research Fund.....		3,500.00	2,297.15	1,202.85
New Nurses' Home Fund.....	300,119.11	128,176.81	25,000.00	403,295.92
Office of Naval Research Condensation				
Research Fund.....		1,088.36	1,088.36	
Office of Research & Invention Molecular				
Research Fund.....		30,885.48	30,885.48	
Office of Scientific Research and Development				
Dr. Marcus Hobbs.....		590.49	590.49	
Obstetrics & Gynecology Bacteriologic				
Research Fund.....		625.00		625.00
Pinecrest Road Development Fund.....	(47,045.02)	20,700.00	39,510.36	(65,855.38)
Purchase of German Law Books Fund.....	1,190.73	10.02	893.50	307.25
Recreational Reading Collection Fund.....	23.81		19.58	4.23
Red Friars Building Fund.....	356.83	3.56		360.39
Research Corp. Molecular Research Fund.....	6,457.72		5,354.87	1,102.85
Research Publication Fund.....	6,206.13	320.03		6,526.16
Rockefeller Foundation Grants:				
Brucellosis Research.....	1,331.67			1,331.67
Latin-American Studies.....	97.39	1,503.44		1,600.83



## Schedule E (Continued)—Expendable Funds

Particulars	Balance	Increase	Decrease	Balance
	June 30, 1947			June 30, 1948
Medical Students.....	200.01	.....	.....	200.01
Study of Monroe Doctrine.....	400.00	.....	.....	400.00
Postgraduate Fund.....	3,000.02	.....	2,000.00	1,000.02
Research in Neurology.....	2,233.36	2,500.00	500.00	4,233.36
Research in Physical Chemistry of Proteins..	(283.97)	6,500.00	4,717.95	1,498.08
Research Work—Dr. von Beckerath.....	.....	500.00	.....	500.00
Salaried Employees' War Bond Fund.....	1,652.84	40,749.37	40,513.45	1,888.76
Scholarly Lectures Fund.....	60.00	.....	.....	60.00
Seagrams Physiological Research Fund.....	800.05	(755.05)*	45.00	.....
Searle Synthetic Drugs Research Fund.....	.....	2,740.00	676.10	2,063.90
William Senhauser Memorial Fund.....	1,000.00	25.00	.....	1,025.00
Sharpe & Dohme Retintin Fund.....	1,500.00	.....	.38	1,499.62
Smith, Kline & French:				
Grant to Dr. Stead.....	1,800.00	.....	1,800.00	.....
Grant to Dr. Bernheim.....	248.92	.....	248.92	.....
Floyd B. Souders, Jr., Educational Fund.....	500.00	.....	.....	500.00
Southeastern Jurisdictional Conference				
Expense Fund.....	12,060.47	5,806.44	7,500.00	10,366.91
Special Endocrine Fund.....	.....	2,492.63	.....	2,492.63
Special Gifts for Purchase of Library Books....	10,849.17	12,662.50	8,428.12	15,083.55
Students Book Fund.....	1,635.19	.....	917.54	717.65
Study of Analgesic and Sedative Drugs.....	446.86	221.14*	668.00	.....
Surgical Research Fund.....	157,489.87	4,318.47	12,100.81	149,707.53
Surgery Clinical Research Fund.....	.....	130.00	62.50	67.50
Hardin F. Taylor Gift to Marine Laboratory....	1,000.00	57.50	.....	1,057.50
James A. Thomas Memorial Fund.....	466.66	.....	.....	466.66
Training Nurses for National Defense Fund....	40,314.18	(11,605.60)	4,633.00	24,075.58
Turkish Tobacco Research Fund.....	53,085.37	.....	52,798.56	286.81
Union Bag & Paper Corp.:				
Forestry Fellowship Fund.....	2,922.23	2,500.00	1,827.31	3,594.92
Forestry Research Fund.....	2,967.72	.....	.....	2,967.72
U. S. Public Health Service:				
Cancer Research C-542.....	.....	24,948.00	5,939.51	19,008.49
Clinical Psychology Fund.....	.....	15,900.00	13,404.82	2,495.18
Psychiatric Training Fund.....	.....	13,300.00	6,130.65	7,169.35
Grant RG-283 (c).....	.....	4,590.00	4,348.65	241.35
Grant RG-400.....	.....	4,250.00	631.72	3,618.28
Grant RG-699R.....	.....	17,500.00	10,873.26	6,626.74
Grant RG-699 R-S.....	.....	12,500.00	5,158.97	7,341.03
Grant RG-869.....	.....	2,754.00	2,754.00	.....
Grant RG-1167.....	.....	1,205.00	1,205.00	.....
Grant RG-1235.....	.....	3,466.00	821.74	2,644.26
Grant RG-91 (C2).....	.....	2,592.00	283.30	2,308.70
Veterans Administration Study of Neural				
Regeneration.....	.....	1,170.83	1,170.83	.....
Wage Employees' War Bond Fund.....	(.25)	945.00	917.25	27.50
Wake County Alumni Fund.....	145.00	.....	.....	145.00
Watson Laboratories Fund.....	.....	76,532.29	76,532.29	.....
Westminster Fellowship Fund.....	1,641.62	2,435.02	1,384.78	2,691.86
Woman's College Class of 1941 Fund.....	400.00	.....	.....	400.00
Woman's College Class of 1942 Fund.....	518.00	.....	.....	518.00
Woman's College Student Project Fund.....	1,059.74	.....	30.90	1,028.84
William H. Wannamaker Portrait Fund.....	.....	828.80	828.80	.....
Totals.....	\$2,304,593.94	\$2,888,820.95	\$2,176,384.40	\$3,017,030.49

\*Net after refunds.

**SCHEDULE F—GIFTS FOR CURRENT EXPENSES**

North Carolina Conference of the Methodist Church	\$ 5,000.00	
Western North Carolina Conference of the Methodist Church	7,500.00	
Dr. Deryl Hart	1,000.00	
Class of 1922	5,000.00	
Duke University Class of 1948	35.00	
Woman's College Class of 1948	35.00	
Nello L. Teer	350.00	
Committee of the South	1,006.25	\$ 19,926.25

**SCHEDULE G—GIFTS FOR PLANT AND EQUIPMENT**

Anonymous Donor, General Library Addition	\$339,753.14	
Elizabeth P. Hanes Building Fund	35,857.80	
Private Diagnostic Clinics	127,711.86	
Duke Pathological Service	244.17	
Mrs. J. Foster Barnes	25.00	
Red Friars	3.56	
The Duke Endowment	332,198.90	
Dorothy Beard Research Fund	5,305.00	
Ayerst, McKenna & Harrison, Inc.	3,000.00	\$844,099.43

**SCHEDULE H—GIFTS AND GRANTS FOR RESEARCH****INDIVIDUALS****Wm. McDougall Research Fund:**

Mrs. Dorothy Wembert	\$ 100.00	
Frederick F. A. Pearson Foundation, Inc.	5,000.00	
Mr. Frederick A. Pearson	5,000.00	
Mr. Charles E. Ozanne	2,000.00	
Mr. Edward Bindrim	25.00	
Duke University	11,000.00	
Earnings	771.63	\$ 23,896.63

**Anna H. Hanes Research Fund:**

Medical P.D.C.	67,755.44	
Hanes Hosiery Mills Company	20,000.00	
Hanes Dye & Finishing Company	10,000.00	
Robert M. Hanes	4,075.00	
Earnings	6,194.85	108,025.29

Dorothy Beard Research Fund . . . . . 21,184.18

**Department of Surgery Fund:**

Department of Surgery	45,305.93	
Clarence E. Gardner, Jr.	1,600.00	
Lenox D. Baker	1,600.00	
Keith G. Grimson	800.00	
Dr. Guy L. Odom	800.00	
Barnes Woodhall	1,500.00	
Kenneth Pickrell	800.00	

**Schedule H (Continued)—Gifts and Grants for Research**

R. Beverly Raney	600.00	
Dr. Deryl Hart	2,000.00	
Barnes Construction Company	500.00	
Earnings	221.19	55,727.12
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Special Endocrine Fund:		
Department of Surgery	1,867.63	
Department of Obstetrics and Gynecology	625.00	2,492.63
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Gifts for Research in Obstetrics and Gynecology:		
Department of Obstetrics and Gynecology	875.00	
Earnings	178.48	1,053.48
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Robert S. Carroll Psychiatry Fund		31,524.00
Department of Pathology—		
Neuropathologic Fund:		
Medical P.D.C.		1,000.00
General Research Fund Earnings		67.30
Medical Research Fund Earnings		192.07
Obstetrics & Gynecology Bacteriologic Fund:		
Department of Obstetrics and Gynecology		625.00
Surgical Research Fund Earnings		4,191.74
Hardin F. Taylor Grant for Marine Laboratory		
Earnings		57.50
F. M. Hanes, Bequest to Department of Medicine		
Earnings		9,000.00
F. M. Hanes, Bequest to Duke Medical School		
Earnings		9,000.00
Surgery Clinical Research Fund:		
John W. Simpson	5.00	
Mack M. Goss	25.00	
Richard Ball	100.00	130.00
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Gottesman Foundation Grant:		
D. S. Gottesman	1,000.00	
John H. Scatterty	350.00	
Henry Himmel	1,000.00	2,350.00
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H. C. Horneman		5,000.00
		<hr/>
		\$275,516.94
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INDUSTRY		
Johnson & Johnson Company	2,000.00	
Ayerst, McKenna & Harrison, Inc.	4,350.00	
Ciba Pharmaceutical Products Co.	3,125.00	
Clark & Clark Company	200.00	
Davis & Geck, Inc.	483.50	
Anonymous	10,000.00	
American Cyanamid Company	18,250.00	
Earnings	363.12	
G. D. Searle & Company	2,740.00	

**Schedule H (Continued)—Gifts and Grants for Research**

Union Bag & Paper Corporation	2,500.00	
Eli Lilly & Company	6,000.00	50,011.62
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<b>FOUNDATIONS</b>		
American Foundation for Tropical Medicine, Inc.: Fungus research	2,900.00	
Carnegie Foundation for the Advancement of Teaching Fund:		
Carnegie Foundation	7,500.00	
Duke University	2,500.00	10,000.00
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General Education Board		21,106.36
W. K. Kellogg Foundation		5,625.00
Life Insurance Medical Research Fund		17,325.00
John & Mary R. Markle Foundation, Inc.		11,100.00
National Research Council		2,500.00
National Foundation for Infantile Paralysis		15,850.00
National Tuberculosis Association		500.00
Nutrition Foundation		9,500.00
Rockefeller Foundation		7,000.00
Institute for Study of Analgesic and Sedative Drugs	668.00	104,074.36
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<b>GOVERNMENT</b>		
United States Army—Contracts	98,213.28	
United States Navy—Contracts	69,131.03	
United States Public Health Service— Grants	151,149.73	318,494.04
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		<u>\$748,096.96</u>

**SCHEDULE I—GIFTS FOR FELLOWSHIPS AND SCHOLARSHIPS**

Allied Chemical & Dye Corporation	\$ 1,580.00	
Anatomy Department—Department of Surgery	800.00	
The Borden Company	2,510.02	
Carbide & Carbon Chemical Corporation	2,300.00	
E. I. DuPont de Nemours & Company	2,800.00	
Eli Lilly & Company	1,000.00	
Southeastern Jurisdictional Conference	5,806.44	
Centennial Scholarship Fund (Earnings)	75.20	
Divinity School Miscellaneous Scholarship Funds:		
Franklinton Baptist Church	\$ 200.00	
Methodist Conference Educational Board	400.00	
Methodist College Advance	2,700.00	
James Reynolds	380.00	3,680.00
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Duke University Sundry Scholarships:		
A. M. Proctor	450.00	
Sears, Roebuck & Company	360.00	
Edward J. Burke Memorial	150.00	
Tithers, Inc.	100.00	
Lykes Brothers, Inc.	500.00	

**Schedule I (Continued)—Gifts for Fellowships and Scholarships**

National Foundation for Infantile Paralysis, Inc.	1,761.00	
Arthur H. Priest, Trustee	388.00	
Raymond H. Blair	150.00	
National Board for Pepsi-Cola Scholarships	1,500.00	
Board of Education, Methodist Church	1,400.00	
Woman's Pan-Hellenic Council	100.00	6,859.00
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General University Scholarship:		
Sundry Contributors		6,002.00
Graduate Scholarship in Philosophy:		
Allan H. Gilbert	270.00	
Board of Education, Methodist Church	1,588.00	\$ 35,270.66
		<hr/>

**SCHEDULE J—GIFTS FOR MISCELLANEOUS PURPOSES**

American Council of Learned Societies		
Payment on Brown Folklore Collection	\$ 500.00	
Carillon Fund—Earnings	19.83	
Duke Memorial Etching Fund		
Sale of Etchings	1,354.00	
Crippled Children Spastic Orthopedic Fund		
Earnings	250.65	
Duke Homestead—Earnings	30.08	
Duke University Student Project Fund		
Duke University Class of 1948	316.00	
P. Huber Hanes Publication Fund		
Interest	\$ 20.05	
Income from P. Huber Hanes Fund	400.00	420.05
<hr/>		
Research Publications Fund		
Royalties on Books	320.03	
William Senhauser Memorial		
Mrs. Margaret Raymond	25.00	
W. H. Wannamaker Portrait Fund:		
C. A. Dukes	25.00	
J. M. Carver	100.00	
Leo Brady	200.00	
E. C. Brooks	100.00	
J. G. Pennington	25.00	
J. M. Mecum	25.00	
Fred Folger	25.00	
W. Herbert Smith	100.00	
Hermina H. Aiken	5.00	
W. I. Bissette	25.00	
Walter Turrentine	5.00	
H. C. Sprinkle, Jr.	15.00	
W. J. Smith	50.00	
Kenneth W. Litaker	75.00	
Michael Bradshaw	10.00	
J. Roy Davis	25.00	
E. C. Summers	12.50	
C. E. Jordan	29.25	
Less transfer to Loyalty Fund	(22.95)	828.80
		<hr/>



## Schedule J (Continued)—Gifts for Miscellaneous Purposes

Methodist College Advance Fund:		
North Carolina Conference	2,695.86	
Western N. C. Conference	4,000.00	6,695.86
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Duke Hospital Social Service Fund:		
Independent Aid, Inc.	10,000.00	
Duke University	12,310.83	22,310.83
	<hr/>	
Purchase of German Law Books Fund:		
Interest		10.02
Friends of Duke University Library Fund:		
Dr. James Cleland	2.00	
Webb Garrison	5.62	
W. B. Hamilton	10.00	
Adelaide Maner	5.00	
Ruth M. Addoms	5.00	
Mr. & Mrs. Edwin D. Fowler	5.00	
Mr. & Mrs. Jerry B. Stone	10.00	
Frances Paton	35.00	
Paul J. Kramer	10.00	
J. W. Harriss	100.00	
Frank T. de Vyver	10.00	
G. B. Pegram	10.00	
Lucile K. Boyden	10.00	
Dr. J. C. Trent	3.66	
Ida D. Neuhoff	5.00	
E. H. Gittman	50.00	
Mr. & Mrs. W. T. Laprade	10.00	
Mrs. James H. Hyde	100.00	
Mrs. James Patton	35.00	
Miss Mary Joe Kennedy	5.00	426.28
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Special Gifts for the Purchase of		
Library Books:		
Earnings from George Washington		
Flowers Memorial Fund	12,562.50	
Mrs. Estelle Flowers Spears	100.00	
Library Fee Fund	45,245.12	
Lost Book Fund	587.73	\$ 92,002.78
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## GIFTS AND BEQUESTS

Duke University derives its principal support from endowment funds and from miscellaneous gifts and grants. Permanently invested capital funds enable the University to offer to students academic and professional training at a fraction of its actual cost. The effectiveness of the University is determined to large extent by its financial resources.

Gifts and bequests devoted to the improvement of the work of the University will be received and administered by the Trustees in accordance with the desires of the donor.

**GIFTS.** Any kind of property, real or personal, may be the subject of a gift and only such form as is required to pass title is necessary. If the gift consists of real property, the title will be passed by deed; if it consists of cash or unregistered bonds, the gift is consummated by delivery of the property; or if stocks, by delivery of properly endorsed stock certificates. Unless restricted, the use of gifts is at the discretion of the Board of Trustees. Usually the proceeds, conservatively invested, are added to the permanent endowment of the University. The donor may, however, restrict the use of any gift and designate definitely the object for which it shall be used. In such cases, the transfer of property would be accomplished by a letter or other document describing in detail the objects for which the proceeds of the gift are to be used and when accepted by the University the terms or conditions set out therein become binding upon it.

**BEQUESTS.** Bequests may be made to the University by an appropriate clause inserted in a will or by codicil to a will already drawn. The forms shown on the following page will serve as appropriate clauses for wills or codicils.

## FORMS FOR BEQUESTS

### General

I give, devise and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, and its successors forever the sum of ..... dollars (or otherwise describe the gift) for the general purposes and uses of the University at the discretion of the Board of Trustees.

### Specific

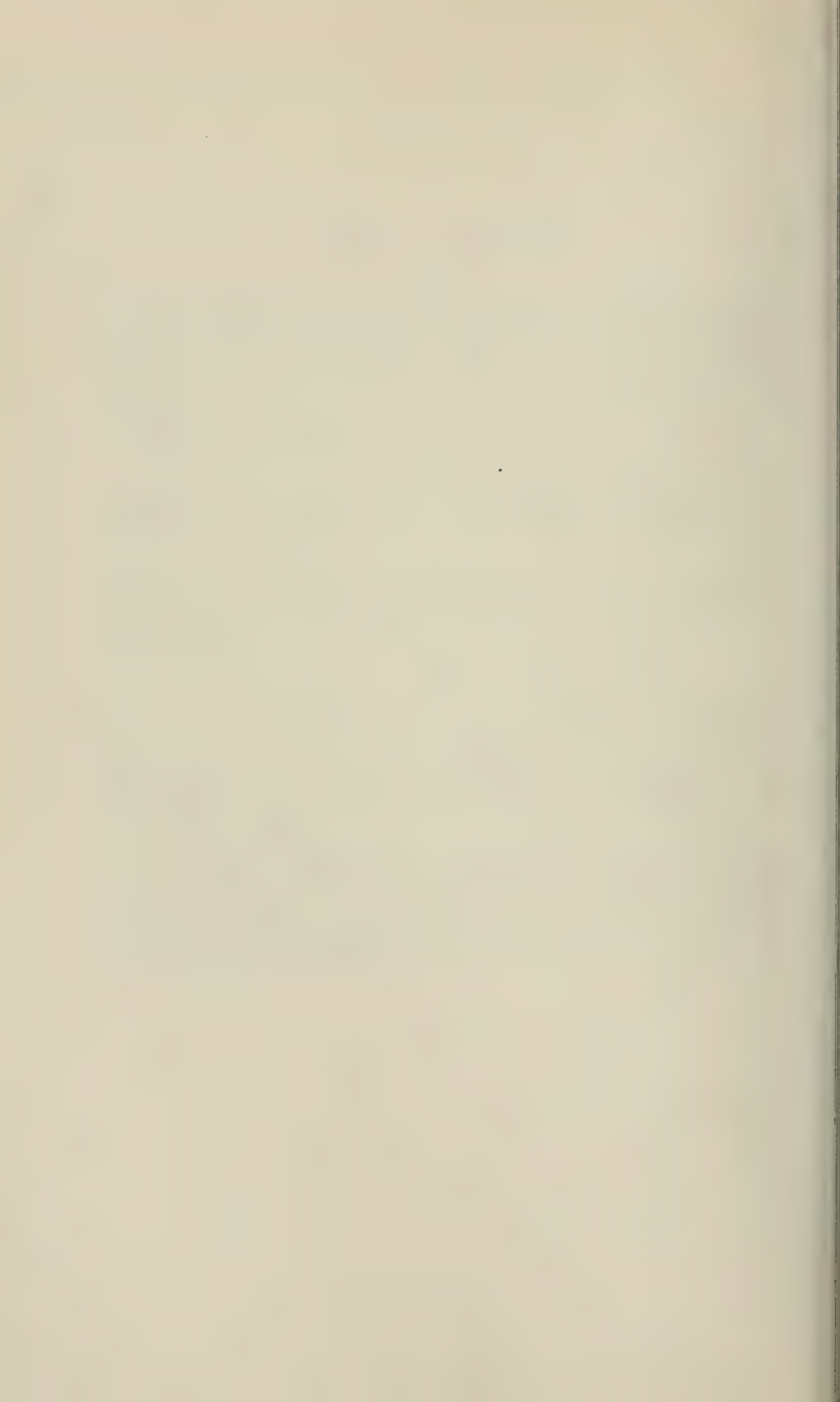
I give, devise and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, or its successors forever, the sum of ..... dollars (or otherwise describe the gift) and direct that the income therefrom shall be used for the following purposes, viz. (here describe in detail the use desired).

### Codicil

Having heretofore made my last Will and Testament dated ..... and being of sound mind, I hereby make, publish, and declare the following codicil thereto; (here insert clause in same form as if it had been included in body of Will). Except as hereinbefore changed, I hereby ratify, confirm and republish my said last Will and Testament.

(It is strongly recommended that a competent lawyer be employed to prepare the will and to supervise its execution in order to comply with all the requirements of the law of the state in which the maker of the will resides. It is also wise to give the University considerable latitude in the use of any fund so that a change of circumstances may not impair the usefulness of the gift. The Treasurer of the University will be glad upon request to review the phrasing of any proposed form of bequest.)











VOLUME 21

February, 1949

NUMBER 4-D

# BULLETIN OF DUKE UNIVERSITY

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*The Summer Session*



1949

FIRST TERM: JUNE 14-JULY 21

SECOND TERM: JULY 22-AUGUST 31

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE COLLEGE OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF FORESTRY, apply to *The Dean of the School of Forestry*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF LAW, apply to *The Dean of the School of Law*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF MEDICINE, apply to *The Dean of the School of Medicine*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF NURSING, apply to *The Dean of the School of Nursing*, Duke University, Durham, N. C.

For BULLETIN OF THE DIVINITY SCHOOL, apply to *The Dean of the Divinity School*, Duke University, Durham, N. C.

For BULLETIN OF THE SUMMER SESSION, apply to *The Director of the Summer Session*, Duke University, Durham, N. C.

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BULLETIN  
OF  
DUKE UNIVERSITY

SUMMER SESSION  
ANNOUNCEMENT



1949

FIRST TERM: JUNE 14-JULY 21  
SECOND TERM: JULY 22-AUGUST 31

DURHAM, NORTH CAROLINA  
1949



## CALENDAR OF SUMMER SESSION

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- |        |   |
|--------|---|
| June   | <p>13 Monday, 9 A.M.—Registration for the first term.</p> <p>13 Monday, 9 A.M.—Examination for students who have completed their professional major.</p> <p>14 Tuesday, 7:40 A.M.—Instruction begins for the first term.</p> <p>14 Tuesday, 2:30 P.M.—Examination for students who have completed their minor.</p> <p>18 Saturday, 9 A.M.—Qualifying examination for Master of Education degree.</p> <p>20 Monday, 7:40 A.M.—Instruction in Physics S51 and E.E. S123 begins.</p> <p>20 Monday—Final date for filing intention of completing degree requirements first term.</p> <p>25 Saturday—Not a holiday. All classes meet.</p> <p>27 Monday, 7:40 A.M.—All classes in the Chemistry Department begin.</p>   |
| July   | <p>1 Friday—Final date for filing title of Master's thesis with the Dean of the Graduate School.</p> <p>4 Monday—A holiday.</p> <p>9 Saturday—Not a holiday. All classes meet.</p> <p>9 Saturday—Examination on the first half of the eight-weeks courses in Botany, Geology, and Zoology.</p> <p>11-14 Dates for graduate reading examination in Romance Languages (arrange with Professor L. B. Walton).</p> <p>20 Wednesday—Final examinations for the first term begin.</p> <p>21 Thursday—Final examinations for the first term end.</p> <p>21 Thursday, 9 A.M.—Registration for the second term.</p> <p>22 Friday, 7:40 A.M.—Instruction begins for the second term.</p> <p>22 Friday, 9 A.M.—Examinations for students who have completed their professional major.</p> <p>23 Saturday, 9 A.M.—Comprehensive examination of candidates for the Master of Education degree.</p> <p>25 Monday, 9 A.M.—Nursing Education Institute begins (Duke Hospital, Room M110).</p> <p>29 Friday—Final date for filing intention of completing degree requirements second term.</p> <p>30 Saturday, 9 A.M.—Qualifying examination for the Master of Education degree.</p> |
| August | <p>6 Saturday—Not a holiday. All classes meet.</p> <p>6 Saturday—Final examination for the eight-weeks courses in Botany, Geology, and Zoology.</p>   |

- 8 Monday, 9 A.M.—Institute for Teachers of Mathematics begins.
  - 10 Wednesday—Final date for filing notice with the Graduate School of expectation to complete work for Master's degree.
  - 19 Friday—Final examination for all classes in the Chemistry Department.
  - 26 Friday—Final examination for Physics S52 and E.E. S124.
  - 30 Tuesday—Final examinations for the second term begin.
  - 31 Wednesday—Final examinations for the second term end.
- September
- 1 Thursday, 9 A.M.—Examination for students who have completed their professional major.
  - 2 Friday, 9 A.M.—Comprehensive examination of candidates for the Master of Education degree.

## SUMMER SESSION ANNOUNCEMENT

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- TRUESDALE, JAMES N., A.B., A.M., Ph.D.; *Greek* (Duke University).
- TURNER, ARLIN, B.A., M.A., Ph.D.; *English* (Louisiana State University).
- UHRHANE, LUELLA, R.N., B.S.; *Physical Education* (Duke University).
- UMSTATTD, J. G., A.B., A.M., Ph.D.; *Education* (University of Texas).
- WALTON, A. J., A.B., A.M., Ph.D.; *Religion* (Duke University).
- WALTON, LORING BAKER, A.B., Lic. es L., Ph.D.; *Romance Languages* (Duke University).
- WARD, CHARLES EUGENE, A.B., A.M., Ph.D.; *English* (Duke University).
- WATSON, RICHARD L., JR., A.B., Ph.D.; *History* (Duke University).
- WETHERBY, JOSEPH CABLE, A.B., M.A.; *English* (Duke University).
- WHARTON, GEORGE WILLARD, JR., B.S., Ph.D.; *Zoology* (Duke University).
- WHITRIDGE, EUGENIA R., MRS., A.B., A.M., Ph.D.; *Sociology* (Duke University).
- WILSON, FLORENCE K., R.N., B.A., M.S.; *Nursing Education* (Duke University).
- WILSON, FREDERICK ELIPHAZ, A.B., A.M.; *German* (Duke University).
- WOLFF, MARGARET H., R.N., B.S., M.A.; *Nursing Education* (Veterans Administration).
- WOODY, ROBERT HILLIARD, Ph.B., A.M., Ph.D.; *History* (Duke University).
- ZENER, KARL EDWARD, Ph.B., A.M., Ph.D.; *Psychology* (Duke University).

## DUKE UNIVERSITY SUMMER SESSION

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Duke University, located at Durham, North Carolina, includes Trinity College, the Woman's College, the College of Engineering, the Graduate School of Arts and Sciences, the Divinity School, and the Schools of Law, Medicine, Nursing, and Forestry, and the Department of Education. The student body is drawn from the entire United States, with a representative group of foreign students. The enrollment for the Summer Session is somewhat smaller than for the regular year, but with a larger representation of graduate students.

In 1948 there was a total registration of 2,487 in the Duke University Summer Session, excluding the enrollments of the Schools of Medicine, Nursing, and Law. Of these registrations, 1,616 were enrolled for the first term, and 871 the second term. There were 584 graduate students admitted on the basis of Bachelor's or Master's degrees from 189 different colleges and universities. The total enrollment for the summer was drawn from forty-one states.

Duke University is located on two campuses connected by prompt and inexpensive bus service. The Duke Forest is adjacent and easily accessible to the West Campus. This campus, with its Tudor Gothic architecture, has all dormitories, laboratories, classroom buildings, auditorium, administration building, and buildings of the professional schools arranged in quadrangles, of which the University Chapel is the dominating center. To the right of the Chapel, as one enters the main quadrangle, stands the General Library, the largest in the South. Opposite the Library is the Union, center of student activities, in which are housed practically all the facilities needed in the general day-by-day round of student life, including a large social lobby, reading room, information office, alumni headquarters, news service offices, six dining rooms, reception rooms, headquarters for various student organizations, a government post office, a typing bureau, the University stores, and a barber shop.

The East Campus, which during the academic year houses the Woman's College, is well located with regard to the business section of Durham. Its dormitories, classroom buildings, library, auditorium, and administration building are conveniently grouped together with the Union, center of student activities, the government post office, and the College store. The Ark, the recreational building for women students, the swimming pool in the Woman's College Gymnasium, the tennis courts, and the playing field afford ample opportunity for recreational activities during the summer term.

For the Summer Session of 1949 the East Campus will be closed for repairs. All students, men and women, graduate and undergraduate, will room on the West Campus during both terms of the Summer Session. For the first term a few classes may be scheduled on the East Campus. For the second term all classes will be scheduled on the West Campus.

**CALENDAR AND REGISTRATION**

The first term of Summer Session will open June 14 and close July 21. The second term will open July 22 and close August 31. Classes will meet five days a week, Monday through Friday. All Saturdays except June 25, July 9, and August 6 are holidays.

For the first term, Monday, June 13, is registration day. Any students who have not previously registered by mail should come to the Summer Session Office to submit their credentials for admission, select courses, make arrangements concerning room, and complete their registration. Students who have completed their registration by mail should come by the Summer Session Office and pick up their class cards. The Summer Session Office will be open from 9:00 A.M. to 1:00 P.M. and from 2:00 to 5:00 P.M. Students arriving after 5:00 P.M. will register Tuesday, June 14, beginning at 8:00 A.M. Regular classes will begin Tuesday, June 14 at 7:40 A.M. Class schedules will be posted on all the bulletin boards or may be obtained from the Summer Session office or the offices of the Deans of the various schools.

For the second term, Thursday, July 21, is registration day. The Summer Session office will be open for registration from 8:00 A.M. to 1:00 P.M. and from 2:00 to 5:00 P.M. Students arriving after 5:00 P.M., will register Friday, July 22, beginning at 8:00 A.M. Regular classes will begin Friday, July 22, at 7:40 A.M.

All graduate students matriculated for a degree must register their courses in the Graduate School Office at the beginning of each term of their residence at Duke University. This registration is in addition to the registration in the Summer Session Office. When reporting for registration in the Graduate School students should bring with them course cards endorsed by the Director of Graduate Studies in the department of their major subject. Anyone registering in the Graduate School after the close of the Summer Session registration period will be charged a late registration fee of five dollars.

Some teachers whose schools close the second week in June may find it difficult to reach Durham in time to register on June 13. It is possible for students who register by mail in advance to enter their classes as late as Monday, June 20, since as many as four absences are permitted during the first term. Late entrance to class is not advised and if more than four absences are incurred full credit for the term's work cannot be obtained.

In some departments, particularly in the Department of Education, certain courses are given for a period of three weeks. These courses constitute a full daily schedule for the student and allow him to earn three semester hours of credit in the three weeks. A student who finds it impossible to remain for the full six weeks of the second term may thus earn three semester hours of credit in addition to the possible six hours earned in the first term. For students who are ready to enter upon a research problem it is also possible to enroll in a research seminar for three weeks or longer in either term.



**THE SUMMER SESSION PROGRAM: CREDITS**

The Summer Session program is designed to serve:

1. Students now matriculated in the various schools and departments of Duke University, graduate and undergraduate, who wish to earn additional credits toward the completion of the work for their degrees.

2. Students matriculated in other colleges and universities who wish to earn credits to be transferred back to the school in which they are matriculated.

3. Graduates of accredited high schools and undergraduates with advanced standing who have been admitted to Duke University and who wish to enter upon their program of work in advance of the regular session.

4. Teachers in service who wish to earn credits for the renewal of their certificates, or to enter upon a program of work for an advanced degree, or to pursue certain courses which will contribute to the improvement of their teaching efficiency.

5. Candidates for the Master of Arts and Master of Education degrees who desire to complete degree requirements in a series of summers.

*Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers in service, before enrolling for certification credit, should consult the rules laid down by their State Board of Education. If necessary, they should send to their State Board of Education a list of the courses in which they plan to enroll and inquire whether these will be acceptable for certification credit.*

The normal courses in the Summer Session will meet daily, Monday through Friday, for an eighty minute period, throughout the term of six weeks. (Certain unit courses, particularly the beginning courses in English and the foreign languages, will meet twice daily. Elementary courses in the physical and natural sciences occupy a student's entire time daily and continue through a period of eight weeks, except Physics which will continue through ten weeks.) Each normal course carries a credit of three semester hours and two such courses constitute a full load for the student. No student is permitted to obtain credit for more than two such courses and no instructor teaches more than two. The maximum credit allowed for Summer Session work is one semester hour per week spent in residence and work. The maximum credit allowed for the six-weeks term, therefore, is six semester hours. Laboratory courses which are extended to eight or ten weeks carry eight or ten semester hours of credit.

Courses numbered 1-49 are primarily for Freshmen, or Freshmen and Sophomores. Courses numbered 50-99 are ordinarily for Sophomores, or Sophomores and Juniors. Courses numbered 100-199 are designed for Juniors and Seniors. Courses numbered 200-299 are planned for Seniors and graduates. Courses numbered from 300 up admit graduate students only and are of limited enrollment. Courses numbered from



200 up are usually limited in enrollment to approximately twenty-five students, and during the Summer Session consist almost entirely of graduate students. Graduate seminars are limited to fifteen students or fewer.

### **SPECIAL COURSES FOR FRESHMEN AND UNDERGRADUATES**

Graduates of accredited high schools, entering as Freshmen, who desire to begin their program of work before the regular year, may enter summer classes and complete, within six weeks, a full year's work in the subject taken. The School of Spanish Studies offers exceptional opportunity for such of these students as desire work in Spanish. General Zoology is also offered for beginning students, whether pre-medical or simply students desiring to complete their year of required science for the Bachelor of Arts degree. General Chemistry, English Composition, Elementary French, General Geology, Elementary German, Intermediate Algebra, and Plane Trigonometry are other courses open to such Freshmen.

Undergraduate students of the Woman's College, Trinity College, and the College of Engineering, Duke University, as well as undergraduates of other colleges who need credit for six or twelve semester hours to complete the requirements for their degree, or who need credits in certain courses to round out their program of work, will find a variety of courses carrying undergraduate credits available in both the first and second terms of the Summer Session. The variety of courses available in the second term is much less than that in the first term. In order to get the courses they prefer students should apply promptly. If as many as ten students apply for a course not listed in the Bulletin an effort will be made to secure an instructor and to give the course.

### **OPPORTUNITIES FOR GRADUATE STUDENTS IN THE SUMMER SESSION**

A majority of the students in the Summer Session are graduates of standard colleges. Many of them are teachers and administrative or supervisory officials in the public schools. The Summer Session program specifically attempts to provide offerings in those departments of instruction where the work of the courses will be related to the training needs of such teachers and school officials. An attempt has been made to build up regular sequences of graduate courses continuing through a series of summer terms in which graduate students may enroll with reasonable assurance that sufficient work will be offered to enable a properly qualified student to complete the requirements for the Master's degree within the period permitted by the University. Departments which have developed graduate courses whereby students in a series of summer terms may complete the requirements for the Master's degree are: Botany, Economics, Education, English, History, Mathematics, Psychology, Religion, Sociology, Spanish, and Zoology. As soon as the demand justifies it, complete sequences will be added in other departments. In the Department of Education complete sequences of work for the Master's degree are offered in the divisions of public school administration, public school supervision, secondary education, educational psychology, and elementary education.

In all departments a graduate student must select his minor with the approval of the department of his major. Specific regulations and suggestions of the various departments in regard to this matter are given in this bulletin under "Courses of Instruction." All degree candidates are expected to choose their courses according to some unified plan. The mere accumulation of more or less unrelated credits in various divisions of a department with a minor in some department only remotely related to the student's major work will not be accepted as meeting the requirements for a graduate degree. From the very beginning of their graduate work students should plan their program with their major professor. Each succeeding term they should select their courses with the advice of their major professor and the approval of the department concerned and of the Dean of the Graduate School.

### ADMISSION

The Summer Session makes available the facilities of Duke University to those persons who can use them to good advantage and for serious purposes. Candidates for degrees, graduate and undergraduate, will be admitted on the same basis as they are admitted to Duke University for work during the regular session. Applicants who do not desire to matriculate for a degree may be admitted as unclassified students upon presentation of satisfactory evidence that they are qualified to do satisfactory work in the courses which they may elect to pursue.

*Undergraduates*—Undergraduate students now enrolled in Trinity College or the College of Engineering should enroll for the Summer Session just as they do for classes in the regular year. They should go to the office of Dean H. J. Herring and obtain the proper blank for enrollment and have their programs approved when they enroll. Undergraduate students now enrolled in the Woman's College should obtain the enrollment blank from Dean Hazen Smith and have their programs approved by her.

Men who desire to enter Duke University, either as Freshmen or undergraduates with advanced standing, should make application to Dean H. J. Herring, Duke Station, Durham, N. C. Women desiring to enter, either as Freshmen or undergraduates with advanced standing, should apply to Mrs. W. S. Persons, Chairman of the Committee on Admissions for the Woman's College, College Station, Durham, N. C.

Other undergraduates, men or women, Freshmen or upperclassmen, who desire to enter as unclassified students and who are already admitted or enrolled at another institution, should apply to A. M. Proctor, Director of the Summer Session, College Station, Durham, N. C. Students already matriculated in another institution should ask for the Course Approval Blank for use in securing the approval of the Dean of their school for the courses they elect and for use in transferring their credits back to the institution in which they are matriculated. Applicants who are entering college for the first time should have sent a certificate of admission from the institution in which they will be enrolled for the regular year.

Teachers in service who do not hold a Bachelor's degree but desire to attend the Summer Session in order to earn credits towards the renewal of

or the advancement of their certificate and who do not wish to become candidates for a degree from Duke University should apply to A. M. Proctor, Director of the Summer Session, College Station, Durham, N. C., and have sent to him a transcript of their undergraduate college record. In some cases the presentation of their teaching certificate will be sufficient evidence for admission. Teachers who wish to matriculate for a Bachelor's degree will apply for admission to the appropriate persons as indicated in the preceding paragraphs.

*Graduates*—Applicants who wish to matriculate for a graduate degree should apply directly to Paul M. Gross, Dean of the Graduate School, Duke Station, Durham, N. C., for a graduate school application blank and should have all colleges and universities they have attended send complete transcripts of their undergraduate and previous graduate work. When such applicants have been admitted the Summer Session Director will send the proper blank for the reservation of a room and course enrollment.

*Applicants who wish to earn credits toward the renewal of their certificates or who wish to enroll for certain courses on the graduate level and who do not plan to matriculate for a graduate degree may be admitted to the Summer Session as unclassified graduate students.* These should apply to A. M. Proctor, Director of the Summer Session, College Station, Durham, N. C., and should have sent to him a transcript of their undergraduate and previous graduate work. This is necessary in order that such students may be admitted to courses in which regularly matriculated graduate students are enrolled.

*All applications for admission to the graduate school should be made as early as possible in order to allow ample time for obtaining transcripts and for evaluating credentials.* Decisions on applications that come in after June first in all probability cannot be reached until after the opening of the Summer Session.

### EXAMINATIONS

Final examinations on courses are held on the last two days of each term. Examinations on courses taken during the first term will be held on Wednesday and Thursday, July 20 and 21. For the second term, final examinations will be held on Tuesday and Wednesday, August 30 and 31. Final examination for a course running three weeks will be held on the last day of the three-weeks period. Courses in science which run for a period of eight weeks will have two examination dates. The first examination will be held on Saturday, July 9, and the second will be held on Saturday, August 6. The examination for Physics S51 and for the first four weeks of all Chemistry courses will be held at the regular period of examination at the close of the first term, Thursday, July 21. Examination for the last four weeks of all Chemistry courses will be held Friday, August 19. Examination for Physics S52 will be held Friday, August 26. The University has no provision for giving examinations *in absentia*. Students absent from examinations for valid reasons



are permitted a liberal extension of time to return to the University for completion of credit.

Students who have completed the course work in their professional major may take the examination Monday, June 13, from 9:00 A.M. to 1:00 P.M. in Room 2D, West Duke Building. Other dates for this examination are Friday, July 22, 9:00 A.M. to 1:00 P.M. and Thursday, September 1, 9:00 A.M. to 1:00 P.M.

Students who have completed the course work in their minor subject may take the examination Tuesday, June 14, from 2:00 to 5:00 P.M. in Room 2D, West Duke Building. Other dates for this examination are: Friday, July 22, 2:00 to 6:00 P.M., and Thursday, September 1, 2:00 to 5:00 P.M. The minor examination is not required of any student who has passed the qualifying examination, listed below, and required under the new regulations that went into effect June 1, 1945. Students who entered prior to that date are permitted to substitute the qualifying examination for the minor with the approval of the Director of Graduate Studies in Education.

The qualifying examination for the Master of Education degree will be held Saturday, June 18, 9:00 A.M. to 1:00 P.M., Room 2D, West Duke Building. Another examination will be held Saturday, July 30.

The comprehensive examination upon the four basic courses will be held Saturday, July 23, 9:00 A.M. to 12:00 M., and 2:30 to 5:00 P.M. Another examination will be held Friday, September 2, 9:00 A.M. to 12:00 M. and 2:30 to 5:00 P.M. Only those who have completed all four required courses are eligible for this examination. For those who complete all four courses by the end of the first three weeks of the second term, the examination may be given by special arrangement.

Students desiring any of these examinations should notify E. C. Bolmeier, Associate Director of the Summer Session, at least two weeks in advance of the date set for the examination. Students who wish to take either the major or minor subject examination, June 13 or 14, should write to E. C. Bolmeier, College Station, Durham, N. C., not later than June 1, notifying him of their intention and specifying which examination they wish to take.

The date and place of holding a student's examination upon his thesis will be arranged by the chairman of the student's thesis committee after consultation with the Graduate School Office.

#### ADMISSION TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree from an institution of recognized standing may be admitted to take courses, for which his record indicates preparation, in the Graduate School of Arts and Sciences of Duke University.

Applicants for admission who pursue graduate work toward an advanced degree for more than one summer will be required to take the Graduate Record Examination administered by the Graduate Record Office, 437 West 59th. Street, New York City, which, on application, will suggest a convenient examination center. Regular examinations are given

at convenient centers February, May, August, and October. Students who take the Graduate Record Examination must make their arrangements directly with the Graduate Record Office, which charges a nominal fee of five dollars. Admission to graduate standing is marked "provisional" until Graduate Record report has been made.

A candidate for admission to Graduate courses should ask the proper officer of the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work completed by him. Students who have attended more than one college or university should note that certification by one institution of work completed at another institution cannot be accepted. A transcript submitted by the candidate himself in no case will be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School at least fifteen days before the applicant proposes to enter courses; otherwise he may have to enter tentatively and as an unclassified student.

### ADMISSION TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good," in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's."\* (2) The student in his undergraduate work must meet substantially the requirements for the A.B. or B.S. degree at Duke University.† Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with the requirements and are acceptable to the department of the student's major. A graduate student may be requested to withdraw from the University at the discretion of the Dean of the Graduate School.

### ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), Doctor of Philosophy (Ph.D.), and Doctor of Education (Ed.D.). Credit for not more

\* The system of grading used in the Graduate School is as follows: "E," or "Exceptional"; "G," or "Good"; "S," or "Satisfactory." "S" is interpreted in terms of percentage grading as being at least ten points above the undergraduate "pass" of 70. "G" is normally interpreted as indicating a standing in the upper twenty-five percent of the department's students over a period of years.

† In meeting the requirements for the A.B. or B.S. degree at Duke University, a student is not allowed excessive concentration in any one field. The same principle is applied in evaluating the undergraduate record of candidates for admission to the Graduate School.



than one year of graduate work done in the Summer Session may be allowed toward the Doctor's degree. Students who obtain a Master's degree by summer work therefore cannot obtain further credit toward a Doctor's degree by Summer Session credits. Students interested in applying their credits toward a Doctor's degree should apply to the Dean of the Graduate School for a bulletin specifying the requirements for that degree.

### DEGREE OF MASTER OF ARTS

*Language Requirements*—Candidates for the degree of Master of Arts are required to have a reading knowledge of at least one foreign language. The various departments have the right to recommend specific languages that are acceptable to them. The candidate may satisfy the foreign language requirement either by examination or by transcript showing the completion of the third college year of the language, or he may satisfy the requirement by transcript showing the completion of the second college year in each of two acceptable languages. This requirement must be satisfied before the candidate will be allowed to take his thesis examination.

*Major and Minor Subjects*—As a prerequisite to graduate study in his major subject, a student must have completed a minimum of twelve semester hours of approved preliminary courses in that department and twelve additional semester hours whether in that department or in related work. Many departments require eighteen semester hours of undergraduate credit. The student should read carefully the special requirements listed by his department.

To obtain the degree of Master of Arts, a candidate must complete satisfactorily twenty-four semester hours of graduate courses and a thesis. (The student who takes more than fifteen semester hours of work in the Summer Session must complete a total of twenty-seven semester hours of course work and a thesis.) The credit for the thesis is six semester hours. Each candidate for the degree must select a major subject, in which the minimum requirement is twelve semester hours and a thesis. A candidate must take six semester hours of graduate work in a minor outside of but approved by the department of his major, and the remaining six semester hours in the major or minor fields, or in a department approved by the department of his major and by the Graduate School Council. No undergraduate course may be credited toward the degree of Master of Arts.

*Residence Requirements*—The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. Those students who take more than fifteen semester hours of courses in the Summer Session must fulfill a minimum residence requirement of thirty-three weeks.

Not more than six semester hours of course credit toward the Master's degree may be given to candidates for the Master's degree for acceptable graduate courses or for research work completed elsewhere. Such credit does not shorten the minimum period of full-time residence

work required at Duke University. However, with the approval of the department of the student's major and of the Dean of the Graduate School, the student with such credit may be permitted to take six semester hours of required undergraduate training, six semester hours of required language, or to register for nine or twelve hours of thesis research instead of the usual six semester hours. No credit toward advanced degrees is given for University extension or correspondence courses.

All the work offered for the Master's degree, whether in the regular academic year or in Summer Session, must be completed within a period of six years from the date of beginning. A student who expects to complete the work for his Master's degree in the Summer Session should file in the Graduate Office a statement of his intention to complete the work. This statement should be filed during the first week of the term in which the student expects to complete his requirements.

*Thesis*—The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts (or Master of Education) must be filed with the Dean of the Graduate School on or before July 1 of the summer in which it is expected that the degree will be conferred. The subject must receive the written approval of the Director of Graduate Studies of the department in which the candidate has his major field of work and also of the professor under whose direction the thesis is being written.

Four (or, at the discretion of the department concerned, three) bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form at least one week before the date proposed for the thesis examination. All copies of the thesis should be brought to the Graduate Office before distribution to the examining committee. The examining committee is composed of three members of the Graduate Faculty appointed by the Dean of the Graduate School after consultation with the professor directing the thesis. Each candidate for the Master of Arts degree is required to appear before his examining committee for a final examination, which will approximate one and one-half hours in length and will be on the thesis and major field. When the candidate's thesis has been approved by the examining committee, the original and one carbon copy will be endorsed by the committee and returned to the Dean of the Graduate School, who will deposit them in the University Library.

#### DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers or others engaged in educational work, upon completion of the prescribed program of study. Before candidates may be admitted to graduate study for the degree of Master of Education they must have completed a minimum of eighteen semester hours of approved undergraduate work in education, including courses in educational psychology and in the history of education, or educational sociology, or school administration. To be accepted as candidates for the degree, students must early in their residence (1) make a satisfactory score on a test of general ability and (2) demon-

strate by examination that they can write acceptable English. In addition, they must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained at any time prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

The degree of Master of Education may be earned either with or without a thesis.

*Requirements Without Thesis*—Students who elect not to write a thesis must earn thirty semester hours of course credit (thirty-three in the Summer Session). Twelve of these hours must be chosen from the four basic required courses, Education 300, 304, 305, and 317. Exemption from not more than two of the four basic courses will be allowed students who can by examination show that they already possess adequate knowledge of the subject matter of the courses omitted. Such students must, however, substitute other courses for those from which they are excused, thus still earning the minimum of thirty (or thirty-three) semester hours of course credit. Toward the end of their residence students must also pass a comprehensive examination on the content and inter-relationships among these four courses. Before taking this examination students must obtain the approval of the Director of Graduate Studies in Education and three weeks before its announced date, must file a notice of their intention to take it.

In addition to these twelve semester hours of credit in the four basic courses, the student must have credit in a departmental major of at least twelve semester hours and credit in an extradepartmental minor of at least six semester hours. Educational psychology may count in the minor when the major is elementary education or public school supervision. Toward the end of their residence students must stand a comprehensive examination on their departmental major.

*Requirements With Thesis*—Students are permitted to substitute a thesis for six semester hours of course credit, provided (1) that in the first fifteen hours of their work (twelve, in the Summer Session) they earn a "G" record on at least six hours, and (2) that they present a thesis subject that has been approved by the member of the staff in Education who will supervise the thesis as well as by two other members of the staff. Two of the three faculty members approving the subject must be resident members of the staff in Education.

Besides the thesis, students must earn twenty-four semester hours (twenty-seven in the Summer Session) of course credit. Six of these hours must be earned by taking any two of the basic courses, Education 300, 304, 305, and 317. Thesis students are exempted from the comprehensive examination which is required of non-thesis candidates. Of the remaining eighteen semester hours (twenty-one in the Summer Session), six hours must be taken in some department other than Education. The other twelve (or fifteen) are taken in the department of the student's major. All other requirements, such as those relating to residence, preparation of thesis, thesis examination, etc., are the same as for the degree of Master of Arts.



### LIVING ACCOMMODATIONS

*Rooms*—For the 1949 Summer Session all students will be housed in the dormitories on the West Campus. In all dormitories the rate of room rent is \$21.00 for each student, where two students occupy a room. There are a limited number of single rooms available at the rate of \$30.00 for the six weeks. Graduate students will be assigned to dormitories separate from dormitories to which undergraduates are assigned. More mature undergraduates may be assigned to dormitories for graduates.

Occupants of University rooms furnish their own bed linen, blanket, pillow, and towels. All other essentials are furnished by the University.

There is no dormitory available for married students whose wives accompany them. Frequently, when both the husband and wife are enrolled in the Summer Session, the husband will room in the men's dormitory and the wife in the women's dormitory. Children are not admitted to the dormitories. Available apartments in town are often listed in the Summer Session Office. This list will be sent upon request.

Requests for room reservation should be accompanied by the full amount of the room rent for the six weeks concerned. Room assignments for the first term will be made beginning about April 15. In order to be sure of a reservation requests should be mailed in promptly. Applicants should be sure to express their preference as to roommate, if they have a preference. Room assignments for the second term will not be made until about July 5.

Rooms rented from the University will not be available for occupancy for the first term before 9:00 A.M., Monday, June 13 and for the second term before 9:00 A.M., Thursday, July 21. Room assignments are made with the understanding that the student is expected to vacate the room at the end of the term within twenty-four hours after his last examination begins.

Students living on the campuses and occupying University dormitories during the Summer Session are governed by the same rules and regulations as apply to students during the regular year.

*Dining Halls*—Ample dining halls are located in the Union Building. Meals are served cafeteria style at most reasonable rates. The cost should be approximately \$1.50 to \$1.75 per day depending upon the needs and tastes of the individual. All dining halls are open to both men and women. Meals are served *a la carte* in the Oak Room. A special dining hall will be provided for the students of the School of Spanish Studies where only Spanish will be spoken. The first meal served for the Summer Session will be at noon, Monday, June 13.

### MEDICAL CARE

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during the Summer Session, at no additional cost to them beyond the medical fee of \$3.50 for each six-weeks term of residence, or any shorter period. This service is under the direction of the University Physician with the cooperation of the staffs of the infirmaries and the University Hospital. It includes hospitalization for a maximum period of six days per term, medical and surgical care, drugs, dressings, X-ray work, and ward, but

not special nursing. Refraction of eyes, treatment of teeth, and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illness occurring during vacations or while off the campus, are not included in this service. The cost of braces and necessary orthopaedic appliances and of blood, as well as special nursing, must be borne by the student. A charge for board will be made of the student while he is in the hospital. All necessary telephone and telegraph charges will be borne by the student.

No illness is treated in dormitory or other rooms occupied by students. Students needing treatment for minor medical or surgical conditions have the attention of the Director of Student Health at his two daily visits to the infirmaries, which have day and night nurses on duty. Students developing serious conditions are promptly transferred from the infirmaries to the University Hospital, where they come under the care of the staff of the hospital. For admission to the hospital a student needs to present the receipt for his registration fees or a certificate from an official of the Summer Session as evidence that he is matriculated in the Summer Session and entitled to hospitalization.

### FEES AND EXPENSES

A registration fee of \$20.00 is charged to all students for a summer term of six to eight weeks, or \$10 if course carried is four semester hours or less. The regular tuition fee is \$8.00 for each semester hour or a maximum of \$48.00 for a program of two courses running for a period of six weeks. For a full program running eight weeks the tuition fee is \$64.00 and for ten weeks the maximum fee is \$80.00. Teachers in active full-time service in schools and colleges are, upon proper application, allowed a tuition scholarship rebate amounting to one-half of the regular tuition, for not more than four terms of six weeks within a period of six years. After their fourth term teachers pay regular tuition charges. (Application for this scholarship rebate should be made to the Director of the Summer Session.) Graduate students completing the work for the Master of Arts degree in the Summer Session will pay a thesis supervision fee of \$25.00, due after the work for the degree has been completed. Likewise graduate students completing the work for the Master of Education degree pay an examination fee of \$25.00. Because of the extra services rendered a special fee of \$10.00 is charged students enrolled in the School of Spanish Studies.

Major expenses for the six-weeks term are estimated as follows:

Registration .....	\$20.00
Tuition (deduct \$24.00 for teachers in active service) .....	48.00
Medical service .....	3.50
Room-rent (where two persons occupy a room) .....	21.00
Board, estimated: ample \$90.00, minimum .....	60.00
Special fee for School of Spanish Studies .....	10.00
Books and class materials .....	\$7.00 to 10.00
Bus fare, laundry, and miscellaneous expenses will range from \$9.00 to 15.00	
The minimum expenses for teachers who receive the scholarship rebate should be approximately \$150.00. Maximum expenses will range up to \$200 or possibly \$225.00.	



### THE SCHOOL OF SPANISH STUDIES

Because of the increased interest in Spanish studies throughout the nation and the great expansion of Spanish enrollments in the colleges and high schools of this region the Summer Session will again provide a School of Spanish Studies. The courses offered will include undergraduate work for beginners and through third-year Spanish as well as graduate work and advanced seminars. There will be liberal opportunity for speaking the language, hearing lectures, holding discussions, and attending evening programs all conducted in Spanish. Students in the School of Spanish Studies will room in Crowell Quadrangle where only Spanish will be spoken. A separate dining hall will be used by the students where a member of the staff or a native Spanish-American assistant will be assigned to each table to lead the conversation. All conversation in the dining hall will be in Spanish. All students enrolled in the School of Spanish Studies will take their meals in this dining hall unless excused by the Director of the School.

The School of Spanish Studies is intended to offer to students and teachers an opportunity for intensive training in the knowledge and use of the Spanish language. It is designed to provide a basic orientation in the literature and cultural background of the Hispanic world. Both Castilian and Spanish-American literature and culture will be emphasized. In addition to the regular staff of Duke University, visiting professors and lecturers of note have been engaged. Assistants from Latin America whose native language is Spanish have been secured to aid students in pronunciation and intonation and to give instruction in the cultural mores of Latin America. Because of special facilities provided in the School of Spanish Studies a fee of \$10.00 is charged but all other expenses are the same as in other parts of the Summer Session.

The work is intended for the following groups of persons:

1. High-school and college teachers who need review or further training and orientation for their professional equipment;
2. College teachers who wish to pursue advanced studies in Hispanic literature or cultural history;
3. Graduate students with a major or minor in Spanish;
4. Prospective teachers of Spanish and specialists in other fields (business, government service, history, etc.) whose work may require a knowledge of Spanish;
5. Undergraduates who are majoring in Spanish;
6. Undergraduates who plan to fulfill their requirement in foreign language by courses in Spanish and who desire more than a reading knowledge of the language.

For details of the School of Spanish Studies write the Director of the Summer Session for special Bulletin. The course offerings of the School are listed in this bulletin in the "Courses of Instruction" under Spanish.

### INSTITUTE FOR TEACHERS OF MATHEMATICS

The Institute for Teachers of Mathematics will hold its ninth annual session August 8-19 inclusive. The theme of the Institute is "Mathematics at Work." There will be morning, afternoon, and evening meetings each

day of the Institute. Applications of mathematics to current problems in industry and science will be stressed. Lecturers of recognized ability in industrial research and teachers of note have been secured. Approximately eight study groups will be arranged under the leadership of outstanding teachers.

The Mathematics Laboratory now being established at the University will provide helpful materials and suggestions for the members of the Institute. The registration fee will be \$10.00. Those who so desire can secure a room in the University dormitories at \$1.50 per day. Meals can be secured in the University dining halls, cafeteria style. A separate folder containing full details and program of the Institute will be ready for distribution about April 1. For further information write the Director of the Summer Session or W. W. Rankin, Director of the Mathematics Institute, College Station, Durham, N. C.

### **THE INSTITUTE OF NURSING EDUCATION**

In addition to the courses in Nursing Education, this summer there will be held for the third year an Institute of Nursing Education. The Institute will be held for a period of one week, July 25-30. The program will deal with "Improving Nursing Care Through an Effective Clinical Teaching." Nurses who wish to attend the Institute should write to Dr. Helen Nahm, Director of the Division of Nursing Education, Box 656, College Station, Durham, N. C., for an application blank. The fee for the Institute is \$5.00. A room may be secured in the nurses' residence hall at \$1.50 per day. Meals may be secured in the University dining halls, cafeteria style, at very reasonable prices. For detailed information concerning the Institutes and the courses in Nursing Education write to the Director of the Summer Session, College Station, Durham, N. C.

### **RELIGIOUS SERVICES**

Religious services are held each Sunday morning at eleven o'clock in the University Chapel on the West Campus. Choral music for these services is provided by a voluntary student choir of which Mr. J. Foster Barnes is the director. Summer Session students with vocal talent are invited to join this group. In the past students have found their participation in the choir very enjoyable. The pulpit each Sunday is usually occupied by a regular University preacher, or a special visiting preacher.

### **SUMMER SESSION RECREATION**

The recreation program of the Summer Session will be in charge of Mr. W. S. Persons assisted by Mr. R. B. Fearing. The program of intramural sports has been an enjoyable part of former Summer Sessions. The swimming pools, tennis courts, handball courts, volleyball courts, and other playing fields are open to Summer Session students without charge. Organization of students by state groups is encouraged. These groups arrange picnics, field trips, and other social activities which add much to the enjoyment of Summer Session attendance. A special feature of past summers has been the Sunday evening open-air sing. Stunts and

special features arranged by various student groups add much to the enjoyment of these affairs. Informal dances, carefully chaperoned, are held each weekend in the gymnasium. Arrangements are now being completed for weekend excursions to the Lost Colony Pageant at Manteo, N. C., to Williamsburg, Va., to Myrtle Beach and the Georgetown area of South Carolina, and to other nearby points of interest.

#### **APPOINTMENTS BUREAU**

A Teachers' Appointments Bureau is maintained in Room 103, Page Building, the year around. The service of this Bureau is available to teachers registered in the Summer Session who may desire a change of position and to school officials who may be seeking the services of new teachers. There is no charge for this service.

## COURSES OF INSTRUCTION

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### EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week, Monday through Friday, for six weeks unless otherwise indicated. Where a course is conducted for a shorter or longer period than the usual six weeks, the dates for the courses are shown in italics following the course description. For most courses the regular daily period lasts for eighty minutes and such courses carry three semester hours of credit. This is indicated by the abbreviation 3 s.h. A few courses may meet for two regular periods daily or may meet for a sixty-minute period. In such cases the courses will carry more or less credit. The credit hours allowed for each course are indicated under the description of the course. The numbers given courses offered in the Summer Session are the same numbers used in describing courses in the regular term, with the letter "S" preceding; for example, English S1 in the Summer Session would correspond to English 1 of the regular term.

The four daily periods of the Summer Session are designated as periods A, B, C, and D. The hours of these periods are as follows:

Period A—From 7:40 A.M. to 9:00 A.M.

Period B—From 9:10 A.M. to 10:30 A.M.

Period C—From 10:40 A.M. to 12:00 M.

Period D—From 12:10 P.M. to 1:30 P.M.

The term in which a course will be given is indicated by "I" for the first term, June 14 to July 21, and by "II" for the second term, July 22 to August 31. A copy of the building and room schedule for the various courses will be found posted on the bulletin boards prior to the opening of each session. Copies of these schedules may also be obtained from the Summer Session Office or from the offices of the deans of the various schools.

### MINIMUM ENROLLMENT REQUIRED FOR COURSES

All courses are offered tentatively and subject to minimum enrollments. The University reserves the right to withdraw undergraduate courses in which fewer than twelve students enroll, graduate courses numbered 200-299 in which fewer than ten students enroll, and graduate courses and seminars numbered 300 or above in which fewer than six students enroll. In withdrawing a course, the University attempts to avoid undue hardships for students enrolled for degrees they could possibly complete the current summer. Sometimes, therefore, courses are offered in spite of small enrollments. Some courses not listed will be given when a demand develops and an instructor is available. Some instructors otherwise not in residence will permit students who wish to complete theses begun during the academic year to enroll in the Summer Session. Such students



must present a written request from the instructor to the Dean of the Graduate School and must make an application for enrollment in the Summer Session. If accepted for registration they will pay the regular research fee of sixty dollars instead of registration and tuition fees.

### DEPARTMENT OFFICERS AND REGULATIONS

Departments offering Summer Session programs are listed alphabetically. Under each department is given the name of the chairman and, for those departments now offering in the Summer Session a full sequence of courses leading to the Master's degree, the name of the director of graduate studies is added. Where departments have set up special regulations for admission to candidacy for the Master's degree, these are usually included.

### BOTANY

PROFESSOR HUGO L. BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING (WEST CAMPUS); PROFESSOR PAUL J. KRAMER, DIRECTOR OF GRADUATE STUDIES—04 BIOLOGY BUILDING (WEST CAMPUS)

For admission to candidacy for the Master's degree in Botany, students must have completed a minimum of eighteen semester hours of biological science, including six semester hours of Botany in courses numbered above one hundred. Students who have not yet had the minimum eighteen hours, however, may enter higher courses by permission of the instructor, if he is convinced that they can carry the work for undergraduate credit, and may count such work toward the eighteen hours necessary for candidacy.

**S202. Genetics.**—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and the interpretation of data from the breeding of plants. Prerequisite: one year of botany or zoology, or equivalent, and college algebra. 7:40 A.M. to 10:30 A.M. daily. II. 3 s.h. MR. PERRY

**S235. Introduction to Field Botany.**—A survey of the ferns and seed plants of the Piedmont; practice in identification; regular field trips to learn the common as well as rarer species in their native habitats. Prerequisite: one year of botany or equivalent. *Lectures and field trip or laboratory daily, morning and afternoon, I (first three weeks).* 3 s.h. MR. ANDERSON

**Note:** This class consumes the entire day for the first three weeks and therefore conflicts with all other courses offered. It carries graduate credit provided S236 is also completed for graduate credit; otherwise undergraduate credit only.

**S236. Field Botany.**—A continuation of Botany S235, with field work extended to include a wide variety of vegetation. Experience in the identification of the more difficult families, collecting and preserving specimens, the keeping of records and use of the herbarium. Prerequisite: S235 or equivalent. *Classes daily, morning and afternoon, I (second three weeks).* 3 s.h. MR. ANDERSON

**S252. Plant Physiology.**—The principal physiological processes of plants, including water relations, photosynthesis, digestion, translocation, respiration, and the relation of these processes to plant growth. 2:00-5:00, II. 3 s.h.

MR. KRAMER

Courses following given at the Marine Laboratory, Beaufort, N. C. (Write for special bulletin of the Duke University Marine Laboratory.)



**S211. Structure and Classification of Algae.**—Structures and life histories of algae with emphasis upon marine forms, the principles underlying their classification, their ecology, and economic importance. Collecting, identifications and preservation for the herbarium and morphological study. *June 14-July 21. 6 s.h.* Mr. BLUMQUIST

This course will be given only if there is sufficient demand.

**S256. Plant Ecology.**—An ecological survey of the coastal plain vegetation, including theory and practice in use of instruments for precise habitat studies, and analysis of community and successional relationships. *July 22-August 31. 6 s.h.* Mr. OOSTING

**S225. Special Problems.**—Hours to be arranged. *June 14-August 31.* Mr. BLUMQUIST, Mr. HUMM, Mr. OOSTING

**S359. Research.**—Hours to be arranged. *June 14-August 31.* Mr. BLUMQUIST, Mr. HUMM, Mr. OOSTING

### CHEMISTRY

PROFESSOR JOHN H. SAYLOR, EXECUTIVE OFFICER OF THE DEPARTMENT—115A CHEMISTRY BUILDING (WEST CAMPUS); PROFESSOR WARREN C. VOSBURGH, DIRECTOR OF GRADUATE STUDIES—211 CHEMISTRY BUILDING (WEST CAMPUS)

All first term courses in the Department of Chemistry will begin on Monday, June 27 and continue through Thursday, July 21. All second term courses will begin on Friday, July 22 and continue through Friday, August 19. A course in chemistry constitutes a student's full program and occupies his entire time during each school day.

**S1. General Inorganic Chemistry.**—Elementary principles of chemistry, the occurrence, preparation, properties, and uses of the elements and their compounds. *I. 4 s.h.* Mr. STROBEL

**S2. General Inorganic Chemistry.**—A continuation of S1. Prerequisite: Chemistry S1. *II. 4 s.h.* Mr. STROBEL

**S61. Fundamentals of Analytical Chemistry.**—A study of the relations of electrolytes in solution and of chemical equilibrium illustrated by laboratory experiments involving the techniques of gravimetric, volumetric, and colorimetric analysis. Prerequisites: Chemistry 1-2 and Mathematics 2 or equivalent. *I. 4 s.h.* Mr. SAYLOR

**S151. Organic Chemistry.**—An introduction to the study of carbon compounds. Compounds of the aliphatic series form the basis of lectures, discussions, and laboratory experiments. Prerequisite: Chemistry 61. *I. 4 s.h.* Mr. BRADSHAW

**S152. Organic Chemistry.**—A study is made of compounds of the aromatic series and of carbohydrates and proteins. Prerequisite: Chemistry 151. *II. 4 s.h.* Miss BROWN

**S275. Thesis Research.**—Research in the fields of physical, analytical, inorganic, or organic chemistry. Open to those students whose research programs for the A.M. or Ph.D. degrees have been approved by the department and by one of the instructors in charge of the course. *Schedule to be arranged. (Not more than one semester hour of credit per week for full-time schedule or one semester hour each two weeks for half-time schedule.) 2 to 8 s.h.*

STAFF

(Students enrolling in science research courses pay a research fee of ten dollars per semester hour of credit instead of the regular registration and tuition fees.)

## ECONOMICS

PROFESSOR CALVIN B. HOOVER, CHAIRMAN—115 PHYSICS BUILDING (WEST CAMPUS); PROFESSOR JOSEPH J. SPENGLER, DIRECTOR OF GRADUATE STUDIES—304 GRAY BUILDING (WEST CAMPUS)

For admission to candidacy for the Master of Arts degree in Economics, the student must meet the general requirements for admission to the Graduate School and must have had twelve semester hours in Economics, including Principles of Economics. Twelve additional semester hours must be offered in Political Science, Sociology, or History.

Every candidate for a Master's degree must elect six semester hours of graduate work in Economic Theory. The other twelve hours in Economics should be elected as follows: six hours in the field in which he writes his Master's thesis and three hours in each of two other fields. For purposes of concentration, the fields in addition to Economic Theory shall be Finance, Economic History, History of Economic Thought, and Social Economics. The minor of six semester hours must be taken in Political Science, Sociology, or History, or in some other department approved by the major department.

**S51. Principles of Economics.**—A short course in the essential principles of economic science. (This course will not count as a part of the minimum economics requirements for graduation until the equivalent of S52 has been completed. It will, however, count as elective credit.) *D, I. 3 s.h.*

MR. LANDON

**S52. Principles of Economics.**—A continuation of Economics S51, emphasis on economic problems. *A, II. 3 s.h.*

MR. ASHBROOK

**S57. Principles of Accounting.**—Elementary principles of single proprietorship, partnership, and corporation accounting. *A, B, C, June 14-July 1. 3 s.h.*

MR. MACMILLAN

**S58. Principles of Accounting.**—A continuation of Economics S57. *A, B, C, July 5-21. 3 s.h.*

MR. MACMILLAN

**S103. Transportation.**—Essential features, problems, and competitive positions of rail, highway, air, and inland-water transportation, with most emphasis on rail transportation. Special attention is given to the economic significance of transportation, and to cost factors, rates and their economic effects and regulations. *C, I. 3 s.h.*

MR. LANDON

**S115. Economic Geography: Teachers' Course.**—A study of the interrelation of human activities and environmental elements. The discussion embraces location, maps, and their interpretation, the major climatic regions, seasonal influences, weather, lands and their uses, soils, and minerals, bodies of water, plants, animals, and the works of man, as environmental factors. *A, I. 3 s.h.*

MR. LEMERT

**S116. Economic Geography and Industrial Organization.**—A study of the economic resources and industries of the world: a general appraisal of the natural and the cultural environment; agricultural and manufacturing industries and their location; the conservation of natural resources; world aspects of resource ownership and utilization. *B, I. 3 s.h.*

MR. LEMERT

**Note: Conservation of Natural Resources.**—Teachers especially desiring to take courses dealing with the conservation of natural resources are advised to elect S115, or S116. Teachers with good background in geography should elect S116 if they can take only one of the two.

**S138. Business Statistics.**—A course in elementary statistics designed principally for students of economics and business administration. The course deals with collection of statistical data, construction of statistical tables and charts, and a brief study of the fundamental statistical techniques. *D, I. 3 s.h.*

MR. SAVILLE

**S143. Corporation Finance.**—Principles and problems in the financial organization of corporations; the study of corporate securities, the management of capital, the distribution of earnings; industrial combinations; insolvency and reorganization. *B, I and II. 3 s.h.*

MR. JOERG

(Though not a prerequisite, Economics 57-58, Principles of Accounting, is recommended to students electing this course.)

**S144. Investments.**—A study of the role which the security markets play in American economic life. Attention is devoted to the various types of securities, to the mechanics of their purchase and sale, to the factors which affect and determine their market prices, and to the relationship of stock speculation to the banking system and to general prosperity. Prerequisite: Economics 57-58 and 143. *D, I. 3 s.h.*

MR. JOERG

**S153. Money, Credit, and Banking.**—A study of the nature, characteristics, and functions of money, credit, and the commercial banking system; the history of commercial banking in the United States; the foundation, organization, and functions of the Federal Reserve System; the supervision and control of commercial banks; deposit insurance; and the value of money. *C, II. 3 s.h.*

MR. ASHBROOK

**S158. Insurance.**—The development and basic principles of insurance. This course covers such topics as business uses, policy contracts, costs, and regulation of insurance. Life and fire insurance are emphasized. *B, I. 3 s.h.*

MR. SAVILLE

**S171. Advanced Accounting.**—Advanced accounting theory and practice applied to the managerial problems of valuation and operation in corporations, consolidations, mergers, and liquidations. Open to students who have completed Accounting 57-58. *A and C, June 14-July 1. 3 s.h.*

MR. SHIELDS

**S172. Advanced Accounting.**—A continuation of Economics S171. *A and C, July 5-21. 3 s.h.*

MR. SHIELDS

**S181. Business Law: Contracts, etc.**—The fundamental principles of law as applied to common business transactions. *A, C, June 14-July 1. 3 s.h.*

MR. HAINES

**S182. Business Law: Partnerships, etc.**—A continuation of S181, dealing with agency, bailment, sales, negotiable instruments, partnerships, and bankruptcy. *A, C, July 5-21. 3 s.h.*

MR. HAINES

**S217. Population, Resources, and Standards of Living.**—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth-rates. *A, I. 3 s.h.*

MR. SPENGLER

**S218. Business Cycles.**—A study of the various types of cyclical movements in industry, with special emphasis on cycle theory and methods of controlling or modifying business cycles. *A, II. 3 s.h.*

MR. SIMMONS

**S236. Public Finance.**—This course deals with public expenditures, public revenues, public debts, and financial administration. *B, I. 3 s.h.*

MR. RATCHFORD

**S265. International Trade and Finance.**—A study of the fundamental principles of international trade and foreign exchange. Subjects covered will include international specialization, balance of payments, foreign investments, tariffs and commercial policies, exchange control, exchange rates, and international monetary problems. *C, I. 3 s.h.*

MR. SPENGLER



**S275. Advanced Industrial Accounting and Management.**—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of Overhead Costs. A complete practice set of accounting is worked by each student during the course. Prerequisite: Economics 171-172 and permission of the instructor. *A, B, and C. June 14-July 1. 3 s.h.* Mr. BLACK

**S276. Advanced Industrial Accounting and Management.**—A continuation of Economics S275. Prerequisite: Economics S275. *A, B, and C. July 5-21. 3 s.h.* Mr. BLACK

## EDUCATION

PROFESSOR WILLIAM A. BROWNELL, CHAIRMAN—1c2 WEST DUKE BUILDING (EAST CAMPUS); PROFESSOR JOHN W. CARR, JR., ACTING DIRECTOR OF GRADUATE STUDIES—1b1 WEST DUKE BUILDING (EAST CAMPUS)

For admission to candidacy for the Master of Arts (A.M.) degree with major in Education, or for the Master of Education (M.Ed.) degree students must, in addition to meeting the general requirements for admission to the Graduate School, meet the following specific requirements: 1. Eighteen semester hours of acceptable prior work in Education. 2. Twelve semester hours acceptable prior work in a minor field. (Exceptions: if Psychology, Sociology, Economics, or Political Science is offered for the minor, six semester hours of work completed after entering the Junior year in college will be accepted.)

Graduate courses in the Department are grouped under the following subdivisions: Public School Administration, Public School Supervision, Secondary Education, Elementary Education, and Educational Psychology. Every candidate for the Master of Arts degree in the Department should elect at least twelve semester hours in the one of these fields in which he intends to write his thesis and the remainder of his work, including the six semester hours in his minor, with the approval of the proper division adviser. Dr. Proctor, Dr. Bolmeier and Dr. Stumpf are advisers to students in School Administration; Dr. Carr is adviser to students in Supervision; Dr. Carr is adviser in Elementary Education; Professor Childs and Dr. Proctor advise in Secondary Education; and Dr. Brownell and Dr. Easley advise in Educational Psychology. Candidates for the M.Ed. degree should read with special care the regulations of the Graduate School as set forth on pages 18-19 of this Bulletin.

### PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education must take fifteen semester hours of work from the courses specifically listed or accepted under this division.)

**S213. Problems in the Organization and Administration of Elementary School.**—A study of the work of elementary school principals. *B, I. 3 s.h.* Mr. THEISEN

**S234. Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration. *C, I and II. 3 s.h.* I Mr. UMSTATTD  
II Mr. COOKE

**S283. Administering the Teaching Personnel.**—Possibilities for growth of teachers co-operating with administrative officers for (1) the better solution of classroom problems; (2) effective use of plant, records, health guidance agencies; and (3) building sound attitude toward personnel management tenure, supply and demand of teachers, placement, compensation, community cooperation, professional growth, and retirement. *D, II. 3 s.h.* Mr. COOKE

**S300. Introduction to Educational Research.**—This is one of the four courses required for the Master of Education degree without a thesis. The general purpose is to give the student an overview of research, acquaint him with the nature of research processes, and develop within him an appreciation of the essential characteristics of good research work. *C, I and B, II. 3 s.h.*  
MR. STUMPF

**S323. Public School Finance.**—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. *A, I. 3 s.h. (E)* MR. STUMPF

**S343. State and County School Administration.**—A study of the state and county organization of public schools, emphasizing underlying principles. *C, I and II. 3 s.h.*  
I MR. HIGHSMITH  
II MR. STUMPF

**S300X. Thesis Seminar.**—*I and II. Hours to be arranged. 3 to 6 s.h.*

STAFF

Other courses accepted, not to exceed a total of nine semester hours, as work in School Administration are the following, when the student has the approval of his major professor: S209, S232, S233, S273, S287, S288, S293, S305, listed under the division of Supervision; S208, S258, listed under Educational Psychology; S264 and S304, listed under History of Education; S205, S206, S216, listed under Secondary Education; and S207, S212, S222, listed under Elementary Education. It will be noticed that not all of these courses are offered this summer, but all are offered in a series of summer terms.

#### PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

**S205 Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. *D, I. 3 s.h.*

MR. UMSTATTD

**S208A. Mental Tests and Applications.**—A study of the development of mental testing; various concepts of the nature and organization of intelligence, and their bearing on the theory and practice of testing; important features of group tests; and recent applications of mental tests. Prerequisite: Education S258 or six semester hours of other work in educational psychology or psychology. *D, I. 3 s.h.*

MR. EASLEY

**S222. The Curriculum and Materials of the Elementary Grades.**—A study of curriculum problems in the elementary schools. *B, I. 3 s.h.*

MR. HILLMAN

**S232A. Supervision of Instruction: Elementary School Section.**—A survey of supervision as a means of improving instruction and adapting the curriculum to the learner and to community needs. *D, I. 3 s.h.*

MR. THEISEN

**S232B. Supervision of Instruction: High School Section.**—*B, I. 3 s.h.*

MR. HIGHSMITH

**S258. Educational Measurements.**—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester hours in the Department, including a course in educational psychology. *C, I. 3 s.h.*

MR. SIMS



**S287. Problems of Mentally and Educationally Retarded Children.**—The causes, types, and degrees of mental retardation; psychological theories of mental deficiency; the education of slow learners in regular and special classes; the organization, objectives, curriculum, and teacher of the special class; the social and eugenical bearings of mental deficiency. The educational problems receive major consideration. *B, I.* 3 s.h. MRS. LAYMAN

**S288. Problems of Mental Hygiene and Education.**—The problems, objectives, scope, factors, and techniques of mental hygiene, particularly with reference to its educational and social implications; the prevention of hampering personality difficulties and development of wholesome personality; types of adjustment difficulties in different types of children; especially in the normal, and their preventive and remedial treatment; the mental hygiene of the teaching and learning. *D, I and B and C, July 22 to August 11.* 3 s.h. MRS. LAYMAN

**S304. The School as an Institution.**—The place of the school in society, its history and philosophy. This is one of the courses required for the Master of Education degree. Selected problems guiding the reading of students will be discussed in class and reading students are expected to attend the class from time to time. Other students may take the course for three semester hours credit, as any other graduate course listed. *A, I and II.* MR. BOLMEIER

**S305. The Nature, Function, and Reorganization of the Curriculum.**—This is one of the courses required for the Master of Education degree. Selected problems guiding the reading of students will be discussed in class, and reading students are expected to attend the class as suggested by the instructor. Other students may take the course for the three semester hours credit, as any other graduate course listed. *D, I and C and D, July 22 to August 11, I and II.* 3 s.h. MR. CARR

**S372X. Thesis Seminar.**—*I and II.* Hours to be arranged. 3 to 6 s.h. STAFF

Other courses accepted, not to exceed a total of six semester hours, as work in School Supervision are the following, when the student has the approval of his major professor: S234, S343, S363, listed under the division of Administration; S300, S218, S317, listed under Educational Psychology; S205, S206, S216, S226, listed under Secondary Education; and S207, S212, S213, S237, S247, S257, listed under Elementary Education.

#### EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)

(The Master of Education degree is not offered in this division. Master of Arts candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

**S216. Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. *A and B, July 22 to August 11.* 3 s.h. MR. CHILDS

**S237A. Investigations in Reading: Primary Section.**—A summary of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing, diagnosis, and supervision; emphasis on problems requiring further investigation. A special section intended for teachers in the primary grades. *A, I.* 3 s.h. MISS RUDISILL

**S237B. Investigations in Reading: Grammar Grade Section.**—A special section of S237A intended for teachers in the grammar grades. *C, I.* 3 s.h. MISS RUDISILL

**S237. Investigations in Reading.**—*C and D, July 22-August 11.*

MISS RUDISILL

**S247. Investigations in Arithmetic.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of evolving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *C and D, July 22 to August 11, 3 s.h. (E)* MR. GROSSNICKLE

**S258. Educational Measurements.**—*C, I.*

MR. SIMS

**S268. Investigations in Geography.**—A study of surveys and investigations in geography, with reference to (1) nature and scope of the subject; (2) place in realizing the aims and objective of elementary education; (3) methods of teaching. *C, I. 3 s.h.* MR. HILLMAN

**S287. Problems of Mentally and Educationally Retarded Children.**—*B, I. 3 s.h.* MRS. LAYMAN

**S288. Problems of Mental Hygiene and Education.**—*D, I and B and C, July 22 to August 11. 3 s.h.* MRS. LAYMAN

**S300. Introduction to Educational Research.**—*C, I and B, II. 3 s.h.*

MR. STUMPF

**S317. The Psychological Principles of Education.**—An advanced study of teaching, learning, and the learner. This is one of the courses required for the Master of Education degree of students beginning work after June 1, 1938. Selected problems guiding the reading of students will be discussed in class. *B, I. 3 s.h.* MR. SIMS

#### SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division. Teachers of Religion in public schools should register in this division unless they prefer to use Religion as their major subject.)

**S205. Curriculum Problems in Secondary Education.**—*D, I. 3 s.h.*

MR. UMSTATT

**S206. Sociological Foundations of Secondary Education.**—A consideration of the fundamental institutions of society and the problems of preparing youth to participate in them. The aims and objectives of the secondary education are considered in the light of the school as the strategic agent for guidance. Special attention will be given in the summer of 1949 to the problems of returning veterans in high school and on the junior college level. *A, I. 3 s.h.*

MR. CHILDS

**S215. Educational and Vocational Guidance.**—A survey of the literature on guidance with special reference to secondary education: a critical study of the principles and techniques used in guidance; an attempt to locate the problems most urgently in need of solution. Prerequisite: twelve semester hours in the Department, including course 105 or course 206. *B, I. 3 s.h.*

MR. CHILDS

**S216. Psychological Principles of Secondary Education.**—*A and B, July 22 to August 11. 3 s.h.*

MR. CHILDS

**S225. The Teaching of History and the Social Studies.**—The work consists of a discussion of the question of aims and values in teaching history and civics, textbooks, programs of study, methods of instruction, the use of maps and pictures, the making of lesson plans for use in the high school, and other problems of high-school teaching. (Identical with History S211.) *A, I. 3 s.h.*

MR. MANCHESTER

**S232B. Supervision of Instruction: High School Section.**—A survey of supervision as a means of improving instruction and of adapting the curriculum to the learner and to community needs. *B, I.* 3 s.h. MR. HIGHSMITH

**S234. Secondary School Organization and Administration.**—*C, I* and *II.*  
3 s.h. I MR. UMSTATTD  
II MR. COOKE

**S246. The Teaching of High School Mathematics.**—Fundamental processes, methods of study, mathematical literature, content of courses, application, use of instruments, correlation of different branches, historical development of secondary school mathematics. (Identical with Mathematics S204.) *D, I.* 3 s.h. MR. RANKIN

**S276. The Teaching of High-School Science.**—Discussion, based upon lectures and collateral reading, of such topics as aims, tests for values, the curriculum, classroom procedure, course and lesson planning, secondary school science. Prerequisite: at least eighteen semester hours of science in college. *A, I.* 3 s.h. MR. HAUPT

**S334X. Thesis Seminar in Secondary Education.**—Schedule to be arranged. *I.* 3 s.h. MR. CHILDS

Other courses accepted, not to exceed a total of six semester hours, as work in Secondary Education are the following, when the student has the approval of his major professor: S233, S287, S289, S209, S224, listed under the division of Supervision; S208, S217, S218, S219, S258, listed under Educational Psychology; and 264 under History of Education.

#### ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology, if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester hours of work described or listed under Elementary Education.)

**S213. Problems of the Organization and Administration of the Elementary School.**—*B, I.* 3 s.h. MR. THEISEN

**S222. The Curriculum and Materials of the Elementary Grades.**—*B, I.* 3 s.h. MR. HILLMAN

**S232A. Supervision of Instruction: Elementary School Section.**—*D, I.* 3 s.h. MR. THEISEN

**S237A. Investigations in Reading: Primary Section.**—*A, I.* 3 s.h. MISS RUDISILL

**S237B. Investigations in Reading: Grammar Grade Section.**—*C, I.* 3 s.h. MISS RUDISILL

**S237. Investigations in Reading.**—*C* and *D, July 22 to August 11.* 3 s.h. MISS RUDISILL

**S258. Educational Measurements.**—*C, I.* 3 s.h. MR. SIMS

**S267. Teaching Elementary School Science.**—*C, I.* 3 s.h. MR. HAUPT

**S268. Investigations in Geography.**—*C, I.* 3 s.h. MR. HILLMAN

**S287. Problems of Mentally and Educationally Retarded Children.**—*B, I.* 3 s.h. MRS. LAYMAN



**S288. Problems of Mental Hygiene and Education.**—*D, I and B and C, July 22 to August 11. 3 s.h.* MRS. LAYMAN

**S304. The School as an Institution.**—*A, I and II. 3 s.h.* MR. BOLMEIER

**S305. The Nature, Function, and Reorganization of the Curriculum.**—*D, I and C and D, July 22 to August 11. 3 s.h.* MR. CARR

#### UNDERGRADUATE COURSES

(By permission Seniors may enter graduate courses numbered below 300. Attention is called to the fact that toward the A.B. degree not more than six semester hours of method courses are allowed to count.)

**S84. Social Foundations of Education.**—Survey of the place and function of education and an understanding of the school as a social institution. *A, I. 3 s.h.* MR. SLAY

**S88. Psychological Foundation of Modern Education.**—The psychological facts respecting human development, the learning process, and mental hygiene, together with applications to the teaching process and to the guidance of the learner in the many phases of his education. *D, I. 3 s.h.* MR. OSTWALT

#### COURSES IN NURSING EDUCATION

**S124N. Teaching of Nursing Arts.**—In this course an effort is made to help teachers in schools of nursing to integrate the facts and principles of the social, biological and medical sciences with the teaching of nursing arts. Though major emphasis is placed upon the problems which are involved in planning and teaching the first course in nursing arts, the concept of the nursing arts as an integral part of each clinical area is stressed. *A, I. 3 s.h.* MISS HUNTER

**S192N. Principles of Learning and Methods of Teaching in Schools of Nursing.**—The primary purpose of this course is to help teachers in schools of nursing to understand and to utilize generally accepted principles of learning in planning and carrying out a more effective teaching program in a school of nursing. Instruction is given in the planning of courses in methods of teaching in classrooms and on hospital divisions, in construction of examinations, and in the utilization of other methods of determining the effectiveness of a teaching program. *B, I. 3 s.h.* MISS NAHM

**S193N. Ward Administration and Teaching.**—This course is designed to help head nurses better to understand their functions in planning and managing a program in a hospital division which will result in improved care of patients, greater satisfaction for professional and non-professional personnel, and a more adequate ward teaching program for students and others. *C, I. 3 s.h.* MISS WOLFF

**S195N. Personnel Work in Schools of Nursing.**—The primary purpose of this course is to help head nurses and supervisors to develop an understanding of the principles of human behavior, and the ability to utilize these principles in bringing about more satisfactory relationships between all individuals on a hospital division, and between all departments of the hospital. *D, I. 3 s.h.* MISS WOLFF

**S310N. Organization and Administration of Schools of Nursing.**—A course which includes a discussion of the principles underlying the organization and administration of a school of nursing. The administrative control and support are discussed; and also the preparation of the budget, faculty organization, administration of the curriculum, the provision of instructional facilities, records and reports, and the public relations program. Problems which are involved in organizing and administering a hospital nursing service are also presented, and relationships between the school of nursing and the nursing service are discussed. *A and C, June 27-July 21. 4 s.h.* MISS WILSON, MISS NAHM

## ENGINEERING

PROFESSOR WILLIAM HOLLAND HALL, DEAN OF THE COLLEGE OF ENGINEERING—  
135 ENGINEERING BUILDING

The College of Engineering will use the summer to enable students who have had only one or three or five semesters, or for other reasons are irregular in their schedule beginning next September, to take courses in Engineering or other required subjects that they cannot take in the fall semester of 1949. Every Engineering student now in college should confer with Dean Hall at once and find out what work he can get to best advantage. Veterans desiring to enter the College of Engineering should write promptly for instructions as to work that may be available for them.

**G.E. S1-2. Engineering Drawing.**—The study of mechanical drawing with emphasis on drawing parts; elementary machines, dimensioning, and working drawings; pencil and ink technique, elementary drawing board geometry, including point, line and plane relations, and elementary work in developments and intersections. *August 5-31. 4 s.h.* MR. LEWIS

**G.E. S57. Statics.**—Concurrent forces, parallel forces, nonconcurrent and nonparallel forces, centroids, friction, moment of inertia. Prerequisite: course G.E. 1-2. Mathematics 52 concurrent. *C, I. 3 s.h.* MR. PALMER

**G.E. S107. Strength of Materials.**—Elastic bodies under stress; flexure of simple, overhanging, fixed and continuous beams; columns; combined stresses, etc. For Civil Engineering students, the laboratory work is included in course C.E. 118. Other students should take course G.E. 109 for laboratory. Prerequisite: course 57. *A, I. 3 s.h.* MR. PALMER

**G.E. S128. Hydraulics.**—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course G.E. 57. *B, I. 3 s.h.* MR. LEWIS

**C.E. S110. Plane Surveying.**—Use of instruments; transit, stadia, and compass surveying; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, departures and areas; methods of plotting; survey and plot of portions of campus by stadia, and transit and tape; care and adjustment of instruments. Prerequisites: G.E. 1 and trigonometry. *June 14-July 1 (8 hours a day). 3 s.h.* MR. BROWN AND ASSISTANTS

**E.E. S123-124. Principles of Electric Circuits and Machinery.**—A course designed especially for students in other branches of engineering, covering fundamental electric units and both alternating and direct-current circuits. Prerequisites: Mathematics 53 and 52. (S123 continues four weeks, June 27 to July 21 and S124 continues four weeks, July 22 to August 19.) *8 s.h.* MR. EGERTON

**M.E. S52. Kinetics-Mechanism.**—Motions of particles. Applications of Newton's "Laws of Motion" to motions of rigid bodies. Work, energy, impulse, and momentum. Linkages, cams, gears, trains of mechanism. Prerequisites: G.E. 2, G.E. 57, Mathematics 52. *A and B, II. 4 s.h.* MR. REED

**M.E. S101-102. Engineering Thermodynamics.**—A study of thermodynamic properties and processes of gases, vapor and gas-vapor mixtures; cycles; efficiencies and performance of steam power plant equipment. Prerequisites: Mathematics 52, Physics 52, M.E. 55. *C, I and II. 6 s.h.* MR. KENYON



## ENGLISH

PROFESSOR WILLIAM H. IRVING, ACTING CHAIRMAN—265 WEST DUKE BUILDING (EAST CAMPUS); PROFESSOR PAULL F. BAUM, DIRECTOR OF GRADUATE STUDIES, 402 LIBRARY BUILDING (WEST CAMPUS)

Those who wish to become candidates for the Master's degree in English are expected to have at least twelve semester hours in courses above Sophomore requirements. The Department reserves the right to require additional course work on the graduate level if the work of the student in his first term indicates inadequate preparation. For admission to candidacy with a major in American Literature, the student must *present* courses S137-S138 or an acceptable equivalent in American Literature either as part of the twelve hours stipulated above or in addition to them.

Master's candidates in English are required to complete at least three semester hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester hours of graduate work should take also the bibliography course, S301, at their earliest opportunity.

The language requirements for the A.M. degree in English may be satisfied by the knowledge of any of the following languages: French, German, Latin, Greek, or Italian. In exceptional cases when the candidate's thesis requires the use of another language than those listed above, it may by permission of the Graduate English Staff be substituted.

All graduate students in English must take a general examination set by the advisory committee of the Department before they will be admitted to candidacy for a degree. This examination is held at the opening of the first term of the Summer Session each year. It must be passed by every student not later than the beginning of his third term of summer work.

**S1. English Composition.**—A course in the fundamentals of English composition, oral and written, with special attention to sentence structure, syntax, common errors, etc. Frequent themes. *A, I and II. 3 s.h.* I MR. SUGDEN  
II MR. JORDAN

**S2. English Composition.**—A continuation of course S1. *C, I and II. 3 s.h.* I MR. SUGDEN  
II MR. JORDAN

**S55. Representative English Writers.**—Chaucer, Malory, Shakespeare, Milton, and Pepys will be studied. *B, II. 3 s.h.* MR. BOWMAN

**S56. Representative English Writers.**—Swift, Fielding, Boswell, Keats, Arnold, Thackeray, and Shaw will be studied. *D, II. 3 s.h.* MR. BOWMAN

**S63. A Survey of English Poetry.**—Readings in the English poets from Chaucer to Burns. Attention will be paid to poetic types and technique. *C, I. 3 s.h.* MISS POTEAT

**S64. A Survey of English Poetry.**—Readings in the English poets of the Romantic and Victorian periods, with some consideration of the modern poets. *D, I. 3 s.h.* MISS POTEAT

**S114. The Teaching of Speech.**—A course designed to assist the classroom teacher in the understanding of speech problems. Methods of teaching dramatics, oral interpretation, radio, debating and public speaking. Stress will be laid on the recognition and treatment of functional speech disorders. Previous speech training is desirable but not essential. *B, I. 3 s.h.* MR. WETHERBY

**S119. History of the Theatre.**—The origin and development of drama, acting, and stagecraft from ancient Greece to the modern European and American theatre. Production problems of representative plays of the various periods will be discussed. *A, I and A and B, July 22 to August 11. 3 s.h.* MR. REARDON

**S121. Play Production.**—An introduction to the methods of producing a play, designed to meet especially the needs of teachers whose duties include the directing of plays. The course covers theatre organization, play selection, casting, rehearsing, scene design and execution, lighting, make-up and costume. Lectures, class discussion, and laboratory. *C, I. 3 s.h.* MR. REARDON

**S131. English Literature, 1832-1900.**—A survey of Victorian poetry and prose. Selections from Tennyson, Browning, Arnold, Newman, Macaulay, Ruskin, the Rossettis, Morris, Swinburne, and other representative writers of the period. Lectures, discussions, tests, and a term paper. *B, I. 3 s.h.* MR. SANDERS

**S137. American Literature.**—A survey of American literature from Colonial times to the present. Selections from the works of important authors are read, from Cotton Mather to Eugene O'Neill, and whole novels by Hawthorne, Melville, James, Howells, and others. The work of this course ends with the Civil War period. Lectures, tests, and a term paper. *D, I. 3 s.h.* MR. ROBBINS

**S139. The Speaking Voice.**—This course gives training in placement, pitch, range, and diction for use in professional work and in daily conversation. *D, I. 3 s.h.* MR. WETHERBY

**S143. English Literature: Elizabethan and Seventeenth Century.**—Several Elizabethan plays, with emphasis on Marlowe; selections from the prose writers; selections from the poets, with emphasis on Spenser and Shakespeare. Lectures, tests, and a term paper. *B, I. 3 s.h.* MR. BLACKBURN

**S157. Contemporary Fiction.**—Wide reading in contemporary novelists, from Thomas Hardy to James Joyce, with attention given to influences of European literary and social thought on fiction in English. Frequent written and oral reports. *C, I. 3 s.h.* MR. BLACKBURN

**S221. English Literature of the Early Nineteenth Century.**—A survey of the principal writers and literary monuments from 1798 to 1830; Shelley, Byron, Keats, and Hazlitt. Lectures, discussions of reading assignments, written and oral reports, and a term paper. *D, I. 3 s.h.* MR. SANDERS

**S222. English Literature of the Early Nineteenth Century.**—A survey of the principal writers and literary monuments from 1798 to 1830; principally Shelley, Byron, Keats, and Hazlitt. Lectures, classroom discussions of reading assignments, reports, and a term paper. *D, II. 3 s.h.* MR. BEVINGTON

**S224. English Literature of the Later Nineteenth Century.**—Special attention of the works of Arnold, Ruskin, Pater, George Eliot, Meredith, the pre-Raphaelites, and Swinburne. *C, II. 3 s.h.* MR. BEVINGTON

**S233. American Literature since 1870.**—Selected works of the chief writers of the period. *A, I. 3 s.h.* MR. TURNER

**S234. American Literature since 1870.**—A continuation of English S233. *A, II. 3 s.h.* MR. MABBOTT

**S244. Studies on Whitman and Poe.**—*B, II. 3 s.h.* MR. MABBOTT

**S251. English Literature in the Seventeenth Century.**—A survey course which covers the major works in prose, poetry, and drama from 1600 to the death of Dryden. *A, I. 3 s.h.* MR. WARD

**S252. English Literature in the Seventeenth Century.**—A continuation of English S251. *C, I. 3 s.h.* MR. WARD

**S308X. Seminar in American Literature.**—Primarily for students writing theses in American Literature. *I. Hours and credits to be arranged.* MR. TURNER

**S349d. Seminar in English Literature.** MR. BAUM

## FORESTRY

PROFESSOR CLARENCE F. KORSTIAN, DEAN OF THE SCHOOL OF FORESTRY AND  
DIRECTOR OF GRADUATE STUDIES—GG09 (WEST CAMPUS)

Organized course work in the School of Forestry during the Summer Session is limited to plane surveying, forest surveying, and forest mensuration which are required of all students entering upon two years of study in technical forestry leading to the degree of Master of Forestry (M.F.).

Qualified students may engage in thesis research in certain branches of forestry during the Summer Session with the approval of the instructor concerned and the Dean of the School of Forestry or of the Director of Graduate Studies in the case of work taken through the Graduate School.

**C.E. S110. Plane Surveying.**—Use of instruments; transit, stadia, and compass surveying; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings latitudes, departures and areas; methods of plotting; survey and plot of portions of campus by stadia, and transit and tape; care and adjustment of instruments. Prerequisites: G.E. 1 and trigonometry. (*Three weeks, eight hours a day, beginning June 14.*) **3 s.h. (w)** MR. BROWN

**S150. Forest Surveying.**—Application of plane surveying to forest problems; practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. Prerequisites: Civil Engineering, S110 Plane Surveying, or equivalent. (*Five weeks, eight hours a day, beginning July 5.*) **5 s.h. (w)** MR. COILE

**S151. Forest Mensuration.**—Field studies in methods of measuring content and growth of trees and forest stands; practice in timber estimating, log scaling, use of mensurational instruments, and collection of basic data. (*Four weeks, eight hours a day, beginning August 4.*) **4 s.h. (w)** MR. SCHUMACHER

**S357. Research in Forestry.**—Open to students whose research programs for the M.F. or D.F. degrees have been approved by the Dean of the School of Forestry and the instructor responsible for directing the research and whose programs for the M.A. or Ph.D. degrees have been approved by the Director of Graduate Studies and the instructor in charge. (Credits and schedule to be arranged.) *June 14-August 31. 2 to 12 s.h.* (Not more than one semester hours of credit per week for full-time schedule or one semester hour each two weeks for half-time schedule.) (Consult courses 301-302 in Announcement of School of Forestry for letter designation of branches of forestry in which research is to be conducted.) THE STAFF

## FRENCH

PROFESSOR B. R. JORDAN, CHAIRMAN OF THE DEPARTMENT OF ROMANCE  
LANGUAGES—214 CARR BUILDING (EAST CAMPUS)

**S1. Elementary French.**—*B and D, June 14-July 1. 3 s.h.*

MISS RAYMOND

**S2. Elementary French.**—*B and D, July 5-21. 3 s.h.*

MISS RAYMOND

**Note:** A student enrolled in French S2 must also attend French S1.

**S3. French Prose.**—Reading and translation, exercises in grammar review and verb drill. Prerequisite: French S1-S2 or two years of high-school French. *A and C, July 14 to July 1. 3 s.h.*

MR. ARCHIE

**S4. French Prose.**—Reading and translation writing in French from dictation, and aural drill. Prerequisite: French S3. *A and C, July 4-21. 3 s.h.*

MR. ARCHIE

**S51. Introduction to French Literature.**—Prerequisite: French 3-4 or equivalent. *B, I. 3 s.h.* MR. WALTON

**S52. Introduction to French Literature.**—Prerequisite: French 51 or equivalent. *D, I. 3 s.h.* MR. WALTON

## GEOGRAPHY

See courses S115 and S116 listed under Economics.

## GEOLOGY

**S51. General Geology.**—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where principles of the science are studied in the field. *Lectures or recitation, A and B daily; Laboratory 2:00-5:00 P.M., Tuesday, Wednesday, Thursday, Friday, June 14-July 8. 4 s.h.* MR. BERRY

**S52. General Geology.**—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. *Lecture or recitation, Period A and B, daily; Laboratory 2:00-5:00 P.M., Tuesday, Wednesday, Thursday, Friday, July 11-August 5. 4 s.h.* MR. BERRY

## GERMAN

PROFESSOR CLEMENT VOLLMER, CHAIRMAN—205 PAGE BUILDING  
(WEST CAMPUS)

**S1. Elementary German.**—The fundamentals of grammar and pronunciation; vocabulary drill, translation, and dictation. Emphasis upon a sound reading knowledge of the language and individual achievement. *B, D, June 14-July 1. 3 s.h.* MR. GRASTY

**S2. Elementary German.**—The equivalent of the second college semester of German; intensive reading of graded material; grammar and vocabulary drill; dictation and sight translation. *B, D, July 5-21. 3 s.h.* MR. GRASTY

**Note:** A student enrolled in German S2 must also attend German S1.

**S3. Intermediate German.**—Grammar and composition; dictation, spoken German; reading of narrative and dramatic prose. *A, C, June 14, July 1. 3 s.h.* MR. WILSON

**S4. Intermediate German.**—Grammar and composition; dictation, spoken German; reading of narrative and dramatic prose. Prerequisite: German 3. *A, C, July 5-21, C, I. 3 s.h.* MR. WILSON

**S109. German Prose Fiction.**—Origin and development of the German novel with special emphasis on the first half of the nineteenth century. Lectures and reports. *B, I. 3 s.h.* MR. MAXWELL

**S110. German Prose Fiction.**—Reading and discussion of typical selections from representative authors of the various movements of the second half of the nineteenth century. Lectures and reports. *D, I. 3 s.h.* MR. MAXWELL

## GREEK AND ROMAN LITERATURE

### GREEK

**S15. Mythology.**—A study of Greek mythology and the use made of it in art and English literature. No knowledge of the Greek language is required. *A, I. 3 s.h.* MR. TRUESDALE



**S121. Homer.**—The purpose of this course is to give a general survey of the life and civilization of the Greeks, especially to those who have never studied the language but wish to become acquainted with some of the choicest portions of the literature by the use of translations. The *Iliad* and the *Odyssey* are read in translation and illustrated with stereopticon views of the excavations and discoveries at Troy and other cities of the Mycenaean Age. *D, I. 3 s.h.*

MR. ROSE

**S122. Greek Literature: The Great Tragedies.**—The purpose of this course is similar to that of course S121. Many of the extant plays of Aeschylus, Sophocles, and Euripides are studied in English translation, and reports on assigned topics are required. *B, I. 3 s.h.*

MR. TRUESDALE

#### LATIN

**S112. Roman Literature in English Translation.**—Selected readings in Latin literature in English translation with emphasis on the epic, the satire, and the novel. *C, I. 3 s.h.*

MR. ROSE

#### HEALTH AND PHYSICAL EDUCATION

WOMAN'S COLLEGE DIVISION—ASSOCIATE PROFESSOR JULIA GROUT, CHAIRMAN—  
GYMNASIUM (EAST CAMPUS); TRINITY COLLEGE DIVISION—DIRECTOR  
E. M. CAMERON, CHAIRMAN—GYMNASIUM (WEST CAMPUS)

#### HEALTH EDUCATION

**S41. Personal Health Problems.**—A study of health problems from the point of view of the student in college and as a member of society. *C, I. 3 s.h.*

MISS UHRHANE

**S112. School Health Problems.**—An introduction to school health problems from the point of view of the classroom teacher. This course includes physical inspection of school children, communicable disease control, teacher health, school play, hygiene, safety, and healthful classroom procedures. *D, I. 3 s.h.*

MISS UHRHANE

**S132. Materials and Methods in Health Education for Teachers in Secondary Schools.**—*D, I. 3 s.h.*

MR. AYCOCK

#### PHYSICAL EDUCATION: TRINITY COLLEGE DIVISION

**S56. Swimming.**—This course will serve as partial fulfillment of the uniform requirement in Physical Education. Afternoon hour to be arranged. *I and II. 1 s.h.*

STAFF

**S57. Tennis-Volleyball.**—This course will serve as partial fulfillment of the uniform requirement in Physical Education. Afternoon hour to be arranged. *I and II. 1 s.h.*

STAFF

Note: A student may enroll for only one of these two courses each term.

**S65. History and Principles of Physical Education.**—A study of the objectives and principles upon which physical education is based. The history of physical education is studied in order to show the changes in objectives, principles, and methods and as an aid in the interpretation of trends. Open to Sophomores, Juniors, and Seniors. *C, I. 3 s.h.*

MR. AYCOCK

**S172. Recreational Leadership.**—Combative contests, games, mass athletics, supervision of community recreation. Open to Sophomores, Juniors, and Seniors. *A, I. 3 s.h.*

MR. GERARD

**S173. Individual Gymnastics.**—The diagnosis of abnormal cases, including overweight, underweight, post-operative, postural, and flat-foot cases, with the prescription of exercise for their correction. Open to Sophomores, Juniors, and Seniors. *C, II. 3 s.h.*

MR. AYCOCK



**S182. The Administration of Health and Physical Education in Secondary Schools.**—Presents the everyday problems that arise in the experience of the teacher of health and physical education. Open to Juniors and Seniors. *D, II.* 3 s.h. MR. GERARD

## HISTORY

PROFESSOR WILLIAM T. LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—  
2B WEST DUKE BUILDING (EAST CAMPUS)

For admission to candidacy for a Master's degree in History the student must present a total of eighteen semester hours of prior work in History, of which at least six must be in American History if he plans to take his major work in that field. Before enrolling for thesis supervision, candidates for the Master's degree are required to complete at least three semester hours of seminar work and are strongly urged to enroll for this work in the second term of their attendance in the Summer Session. (See courses numbered 300 or above.)

**S51. Historical Background of the World Today 1500-1871.**—The central fact of the expansion of Europe underlies the content of the course. The chief themes are: the contest between liberty and authority in the modern state, changing economic theory and organization, and the problems of peace and war among the states, including the Western infiltration of Asia, Latin America, and Africa, and the rise of the United States as a world power. *C, I.* 3 s.h. MR. ROPP

**S52. Historical Background of the World Today 1871-1949.**—A continuation of History S51. *B, II.* 3 s.h. MR. HAMILTON

**S92. Political and Social History of the United States since 1865.**—Reconstruction; the rise of the United States as an industrial nation and a world power; the social, economic, and political implications of participation by the United States in the world wars of the twentieth century. *D, I.* 3 s.h. MR. WATSON

**S105. English Constitutional History.**—A history of England with emphasis on constitutional aspects. This course is required of students in the Pre-Legal Group in the Junior or Senior year. *A, II.* 3 s.h. MR. HAMILTON

**S113. America in the Twentieth Century.**—A historical study of political, economic, and social problems of twentieth-century United States. Emphasis is placed on reform movements from the Muckrakers through the New Deal, the emergence of the United States as a world power, and conflicting ideas and ideologies. *B, I.* 3 s.h. MR. WATSON

**S203. The United States, 1850-1876.**—The rise of sectionalism, secession, war-time problems of the Union and Confederacy, political and economic adjustments of Reconstruction, the status of the Negro. *B, II.* 3 s.h. MR. WOODY

**S215. The Foreign Policy and Diplomacy of the United States 1772-1877.**—Deals with such topics as the origin and development of basic foreign policies; isolation from Europe; paramount interests in Latin America, including the Monroe Doctrine; international co-operation in the Far East. *B, I.* 3 s.h. MR. CLYDE

**S231. The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. *C, II.* 3 s.h. MR. LANNING

**S237. Social and Intellectual Development of the Old South.**—Consideration will be given to conditions in the South in respect to slavery, agriculture, manufacturing, transportation, education, religion, science, and literature. *A, I.* 3 s.h. MR. SYDNOR

**S235. War in the Modern World.**—This course, which deals with military and naval history since Napoleon, is concerned with the relations between war and modern political, economic, or social conditions rather than with the details of battles. Special attention is given to British and American military methods and to events in the American Civil War and the two World Wars. *A, I.* 3 s.h. MR. ROPP

**S315. Seminar in Southern History.**—Selected topics in the development of the Southern region, chosen year to year in different periods in its development. *B, I, and II.* 3 s.h. I MR. SYDNOR  
II MR. WOODY

**S321. Seminar in the History of the Spanish-American Colonies.**—*A, II.* 3 s.h. MR. LANNING

**S343. Seminar.**—Selected topics in American foreign relations with emphasis on the Pacific area and the Far East. *C, I.* 3 s.h. MR. CLYDE

### MATHEMATICS

PROFESSOR J. J. GERGEN, CHAIRMAN—201-I PHYSICS BUILDING (WEST CAMPUS);  
PROFESSOR J. H. ROBERTS, DIRECTOR OF GRADUATE STUDIES—201-I  
PHYSICS BUILDING (WEST CAMPUS)

For admission to candidacy for the degree of Master of Arts with major in Mathematics, a student must have a minimum of twenty-four semester hours credit for course work in Mathematics and related fields. This course work must be approved by the Department through the Director of Graduate Studies. It must include differential and integral calculus and an additional six semester hours of work in mathematical courses of at least Junior level.

To obtain the degree a candidate must specialize in one of the following divisions of Mathematics: algebra, analysis, or geometry. In his division of specialization he must write his thesis and complete at least twelve semester hours of course work. To help students meet the thesis requirement, the Department offers Thesis Seminar, S389X, in which supervision of thesis writing is available.

Each student should, as early as possible in his graduate work, discuss his program with the Director of Graduate Studies or his representative.

**Solid Geometry.**—*A, B, September 1 through September 13.* 0 s.h. MR. ELLIOTT

**S1. Intermediate Algebra.**—*B, I.* 3 s.h. MR. PATTERSON

**S2. Plane Trigonometry.**—*A, I.* 3 s.h. MR. ROBERTS

**S5. College Algebra.**—*B, I.* 3 s.h. MR. ELLIOTT

**S50. Plane Analytic Geometry.**—Prerequisite: Mathematics S2 and S5. *B, II.* 3 s.h. MR. GERGEN

**S51. Calculus I.**—Differentiation of elementary functions, curve tracing, maxima and minima, motion. Must be preceded or accompanied by Mathematics S50. *A, I and II.* 3 s.h. I MR. PATTERSON  
II MR. HICKSON

**S52. Calculus II.**—Integration of elementary functions, areas, solids of revolution, length of arc, surfaces of revolution, centroids, moments of inertia, pressure. Prerequisite: Mathematics S51. *C, II.* 3 s.h. MR. DRESSSEL

**S53. Calculus III.**—Introduction to solid analytic geometry, partial differentiation, multiple integration, series, introduction to differential equations. Prerequisite: Mathematics S52. *C, I.* 3 s.h. (w) MR. THOMAS

**S204. Teaching of Mathematics.**—Fundamental processes, methods of study, mathematical literature, content of courses, applications, use of instruments, correlation of different branches, historical development of secondary school mathematics. Prerequisite: Calculus. *D, I.* 3 s.h. (E) MR. RANKIN

**S206. Plane Geometry and Trigonometry from the Advanced Standpoint.**—Postulates for Euclidean geometry, duality, non-Euclidean geometries, geometric rigor, theory of linear and angular measurement, accuracy of logarithmic tables and calculations, nomograms and other computing aids. Prerequisite: Calculus. *B, I.* 3 s.h. MR. THOMAS

**S227. Theory of Numbers.**—Divisibility and Euclid's algorithm, properties of prime numbers, arithmetic functions, congruences, quadratic residues. Prerequisite: Calculus. *A, I.* 3 s.h. MR. CARLITZ

**S251. Infinite Series.**—Topics in the theory of convergence and summability of series, evaluations by series, developments in series. Prerequisite: Calculus. *A, II.* 3 s.h. MR. GERGEN

**S259. Solid Analytic Geometry.**—Lines, planes, spheres, quadric surfaces, transformations. Prerequisite: Calculus. *C, I.* 3 s.h. MR. ROBERTS

**S275. Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral. Prerequisite: Calculus. *B, II.* 3 s.h. MR. DRESSEL

**S389X. Thesis Seminar.**—Supervision of individual theses in algebra, analysis, and geometry. Students should consult the Director of Graduate Studies or his representative before registering. Thesis credit only. *I.* Hours to be arranged. MR. CARLITZ

## MEDICINE

Special summer course available in the Medical School.

**Medical Mycology.**—This course is offered for one month (usually July). Emphasis is placed on the practical aspects of the laboratory as an aid in helping establish a diagnosis of fungus infection. Work with patients, clinical materials, laboratory, animals and cultures form the basis for this course. The number of applicants will be limited and an attempt will be made to select students on the basis of their previous training and their stated need for this type of work. No formal University credit is given but a certificate is awarded those who satisfactorily complete the course. Registration fee is \$50.00.

Application should be made to: Dr. N. F. Conant, Department of Bacteriology, School of Medicine, Duke University.

## PHILOSOPHY

PROFESSOR HENRY S. LEONARD, EXECUTIVE OFFICER OF THE DEPARTMENT; PROFESSOR ROBERT PATTERSON, DIRECTOR OF GRADUATE STUDIES—31 WEST DUKE BUILDING (EAST CAMPUS)

**S49. Introduction to Ethics.**—An elementary consideration of some of the important moral problems in the light of philosophical tradition and the science of values. *A, II.* 3 s.h. MR. McLARTY

**S99. Fundamentals of Christian Morality: An Introduction to Christian Ethics.**—Modes and ideals of life as exemplified in Christian history and expressed in Christian literature. *C, II.* 3 s.h. MR. McLARTY

**S116. The Development of Philosophy in America.**—A historical and critical survey of the leading philosophical movements from Colonial times to the present. *B, I.* 3 s.h. MR. NEGLEY

**S208. Political Philosophy.**—Analysis of the structure of social organization with particular reference to the function of legislation in democratic politics. *D, I. 3 s.h.* MR. NEGLEY

### PHYSICS

PROFESSOR WALTER M. NIELSEN, CHAIRMAN—101 PHYSICS BUILDING  
(WEST CAMPUS)

For admission to candidacy for a Master's degree with major in Physics, students must have completed a minimum of twelve semester hours of Physics. This course work, together with the work in the field of the proposed minor, must be approved by the Department through the Director of Graduate Studies.

**S51. General Physics.**—This course treats the basic principle of general physics in a more quantitative manner than Physics 1-2. It is designed for Sophomores and Juniors and meets in a thorough way the physics requirement for entrance into the study of either medicine or engineering, and is well suited for the general student. A limited number of Freshmen who present physics for entrance and who have completed the required mathematics may be admitted by permission of the instructor. (Not open for students who have completed Physics 1-2.) Prerequisite: Mathematics 2-5 or equivalent. *Lecture and recitation daily, 8:30-9:50 and 10:10-11:30; laboratory three days per week, 2:00-5:00. 5 s.h. June 20-July 21.* MR. CARPENTER

**S52. General Physics.**—A continuation of Physics S51. Prerequisite: Physics S51. *Lecture and recitation daily, 8:30-9:50 and 10:10-11:30; laboratory three days per week, 2:00-5:00. 5 s.h. July 22-August 26.* MR. CARPENTER

**S353. Thesis Seminar.**—Students who are properly qualified may carry on research work under direction. Credits and hours to be arranged. THE STAFF

### POLITICAL SCIENCE

PROFESSOR ROBERT R. WILSON, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—  
311 LIBRARY BUILDING (WEST CAMPUS)

**S61. American Government and Politics.**—A study of the American political system, emphasizing the organization and functioning of the national government. *B, I. 3 s.h.* MR. RICHARDS

**S62. American Government and Politics.**—A study of the American political system, emphasizing the organization and functioning of state and local government. Continuation of S61. *C, I. 3 s.h.* MR. RICHARDS

**S125. American Political Parties and Practical Politics.**—A study of the historical development, organization, and methods of political parties in the United States. *B, II. 3 s.h.* MR. SIMPSON

**S146. Legislation.**—A study of the legislative process with attention to procedure, methods, techniques, delegation of discretion, and the use of controls. *C, II. 3 s.h.* MR. SIMPSON

**S209. State and Local Government in the United States.**—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. *B, I. 3 s.h.* MR. RANKIN

**S292. Municipal Administration.**—A study of principles and methods of municipal administration in the United States. *D, I. 3 s.h.* MR. RANKIN



## PSYCHOLOGY

PROFESSOR DONALD K. ADAMS, CHAIRMAN—201 BIVINS BUILDING (EAST CAMPUS);  
 PROFESSOR KARL ZENER, DIRECTOR OF GRADUATE STUDIES—  
 217A SCIENCE BUILDING (EAST CAMPUS)

For admission to candidacy for a Master's degree in psychology the student must present a total of eighteen semester hours in psychology beyond Psychology 91-92, at least six semester hours of which must be taken in Senior-Graduate courses. In addition he must have credit for Zoology 1-2 or equivalent, and six semester hours in sociology or anthropology.

**S91-92. General Psychology.**—An introduction to the facts, principles and problems of normal adult psychology through a study of psychological methods as applied to motivation, emotions, perception, sensation, thinking, memory, learning, individual differences, and personality. The course is a prerequisite for all other courses in psychology. *B and D, I and II. 6 s.h.*

*I Mr. OHLSON  
 II Mr. BEVAN*

**S204. Motivation and Learning.**—Psychological and biological conditions of the operation, modification, organization of motivational systems. *A, I. 3 s.h.*

*Mr. POSTMAN*

**S206. Social Psychology.**—Social motivation and learning, mechanisms of social interaction, social influences on individual psychological processes, attitudes, language, national character. Historical and contemporary theories are considered in the light of research findings. *B, I. 3 s.h.*

*Mr. POSTMAN*

**S207. Psychology of Memory, Thinking, and Perceiving.**—A study of thinking, remembering, and perceiving with reference to the basic processes involved and their determining conditions, with emphasis upon organization, meaning and motivation. *A, II. 3 s.h.*

*Mr. ZENER*

**S226. Psychology: Historical and Theoretical.**—Systems in contemporary psychology will be examined as developments from their effective historical context, and critically evaluated in terms of underlying methodological pre-suppositions, formulation of basic problems and functional expression in actual research and tactical application. *B, II. 3 s.h.*

*Mr. ZENER*

## RELIGION

PROFESSOR HAROLD A. BOSLEY, DEAN OF THE DIVINITY SCHOOL—110 DIVINITY SCHOOL (WEST CAMPUS); PROFESSOR H. E. MYERS, CHAIRMAN OF THE DEPARTMENT OF RELIGION—204 DIVINITY SCHOOL (WEST CAMPUS);  
 PROFESSOR H. SHELTON SMITH, DIRECTOR OF GRADUATE STUDIES  
 —302 DIVINITY SCHOOL (WEST CAMPUS)

**S51. The History of the Hebrew People.**—A study of the Hebrew people that gives attention to their political history, their religious and social institutions, their literary development, with special reference to their contributions to civilization. *C, II and II. 3 s.h.*

*I Mr. JONES  
 II Mr. BROWNLEE*

**S52. New Testament Life and Literature.**—A study of the literature of the New Testament, its historical background, and its religious value. *D, I and II. 3 s.h.*

*I Mr. JONES  
 II Mr. BROWNLEE*

**S103. The Prophets of the Old Testament.**—In this course a study is made of the history and nature of prophecy, with particular attention being given to the messages of the outstanding pre-exilic literary prophets. Not open for credit to students who take Religion 101. *A, II. 3 s.h.*

*Mr. MYERS*



**S114. The Life and Teachings of Jesus.**—This course considers the period in which Jesus lived, the record of his life, and the meaning of his teachings as recorded in the Synoptic Gospels. Not open for credit to students who take Religion 101. *B, II. 3 s.h.* MR. MYERS

**S181. The Nature and Early Development of Religion.**—Introduction to the early history of religion, the beliefs and practices of the more primitive peoples, and the religious life of the ancient world. For Juniors and Seniors. Not open for credit to students who take Religion 183. *B, I. 3 s.h.* MR. CANNON

**S182. Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. For Juniors and Seniors. Not open for credit to students who take Religion 183. *C, I. 3 s.h.* MR. CANNON

**S203. Introduction to the Old Testament (Pre-exilic Period).**—The origin, literary forms, and contents of the Old Testament in their geographical and historical setting. *A, I. 3 s.h.* MR. POPE

**S291. Christian Ethics I.**—The central assumptions and principles of the Christian conception of the good life. *B, I. 3 s.h.* MR. BEACH

**S296. Movements in American Religious Thought.**—An introductory survey of major developments in American Christian thought, including Puritanism, Evangelicalism, Protestant Liberalism, and the Ecumenical Movement. *A, II. 3 s.h.* MR. SMITH

**S298. Modern American Christology.**—A study of liberal conceptions of Jesus from Charles Chauncy to Walter Rauschenbusch. *C, II. 3 s.h.* MR. SMITH

**S309. History of the Ancient Near East.**—A specialized study of the civilizations of Mesopotamia, Syria, Palestine, and Egypt from the earliest times to 525 B.C. with special reference to Biblical archeology. *C, I. 3 s.h.* MR. POPE

**S358. Christian Education and the Community.**—A study of the principles, practices, methods and materials of Christian Education as related to the total community life. The course will seek to enable church workers to do more creative and cooperative work and point the way for public school teachers to enlarge their contribution to the community through cooperation in the field of Christian Education. *B, II. 3 s.h.* MR. WALTON

**S393. The Christian Interpretation of History.**—A comparative examination of the chief secular and Christian theories of history current in Western thought. For advanced students. Prerequisite: Christian Ethics 291. *D, I. 3 s.h.* MR. BEACH

## SOCIOLOGY

PROFESSOR HOWARD E. JENSEN, CHAIRMAN—310 LIBRARY (WEST CAMPUS);

PROFESSOR HORNELL HART, DIRECTOR OF GRADUATE STUDIES—307

LIBRARY BUILDING (WEST CAMPUS)

**S101. General Sociology.**—An introduction to the scientific study of social life, its origin, evolution, and organization as illustrated by the study of a number of concrete social problems. *A, I. 3 s.h.* MRS. WHITRIDGE

**Note:** Attention is called to the fact that Sociology 91-92, 101, 111 or 112 is prerequisite to all the following courses in the Department.

**S137. The Negro in America.**—A study of the history and changing status of the Negro regarded as a symbol and protagonist of minority groups in America and elsewhere. *A, II. 3 s.h.* Mr. THOMPSON

**S153. The Fields of Social Work.**—A non-professional course designed to acquaint the student with the types of problems existing in both rural and urban communities which can be dealt with in a remedial and preventive way, how they arise in the reciprocal interaction of personality and culture, what their effects are in terms of personal and social disorganization, how communities are organized to deal with them, and social agencies which have been developed to deal with problems of each type, together with an evaluation of effectiveness of the techniques employed. *C, I. 3 s.h.* Mrs. WHITRIDGE

**S235. Urban Sociology.**—The city and civilization. This course studies the inner life and problems of the city and its function in the larger regional and world community which it nucleates. *C, II. 3 s.h.* Mr. THOMPSON

**S243. Social Attitudes and Collective Behavior.**—Study of attitudes as products of social interaction; organization of attitudes into personal behavior patterns; expression of social attitudes in social, political and industrial groups; social unrest and the behavior of crowds and mobs; analysis of social movements, strikes, revolutions, and other group organizations. Prerequisite: course 91-92, 101, 111 or 112. *B, II. 3 s.h.* Mr. SCHETTLER

**S246. Public Opinion and Propaganda.**—Nature and development of public opinion; relation to attitude, biases, stereotypes and controversial issues; role of leaders, pressure groups and minority groups; use of radio, press, motion picture and graphic arts; propaganda and censorship; measurements of public opinion. *D, II. 3 s.h.* Mr. SCHETTLER

**S249. Child Welfare.**—A study in heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92, 101, 111 or 112. *B, I. 3 s.h.* Mr. JENSEN

**S250. Marriage and the Family.**—An analysis of contemporary marriage and family experiences with emphasis on its functions, problems, resources, and values. Not open to students who have received credit for Sociology 299 or Religion 170. *A, I. 3 s.h.* Mr. HART

**S271. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society; poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. *D, I. 3 s.h.* Mr. JENSEN

**S286. Social Ethics.**—A study of sociological fundamentals underlying ethics, including the controversy between materialistic and idealistic social thinkers, the nature of personalities and of social organization, the nature of social values, types of social interaction and their effects upon general social values, underlying principles and facts of social change, and the bearings of all these upon certain social problems. *C, I. 3 s.h.* Mr. HART

## SPANISH

PROFESSOR BRADY R. JORDAN, CHAIRMAN OF DEPARTMENT OF ROMANCE LANGUAGES  
AND DIRECTOR OF GRADUATE STUDIES—214 CARR BUILDING (EAST CAMPUS);  
PROFESSOR JUAN CASTELLANO, DIRECTOR OF THE SCHOOL OF SPANISH  
STUDIES—115 CARR BUILDING (EAST CAMPUS)

**S1. Beginning Spanish.**—Pronunciation; essentials of grammar; dictation exercises; early reading of simple prose; vocabulary lists; consistent use of the language as a means of instruction and as a means of attaining a basic aural command. (A collection of first-year grammars and readers will be available for examination by teachers who wish to register in this course for observation of the oral-aural method.) *A, C, June 14-July 1. 3 s.h.* MISS TATUM

**S2. Beginning Spanish.**—Continuation of course S1. *A, C, July 5-21. 3 s.h.* MISS TATUM

**Note:** A student enrolled in Spanish S2 must also attend Spanish S1.

**S3. Intermediate Spanish.**—Systematic review of verbs; drill on high frequency idioms; review of special grammatical difficulties; dictation exercises and oral drill; constant use of the language as medium of instruction; reading of graduated selection of modern prose. *A, I. 3 s.h.* MR. DAVIS

**S4. Intermediate Spanish.**—Reading of modern short stories and novels, with emphasis on achievement of ability to read without translation; continued oral-aural exercises; dictation; idiom study; grammar review as necessary. *C, I. 3 s.h.* MR. HERNÁNDEZ

**S65. Introduction to Modern Spanish Literature.**—Study of representative masterpieces of the modern novel; brief lectures in Spanish; collateral reading of critical commentaries. *C, I. 3 s.h.* MR. DAVIS

**S68. Introduction to Spanish-American Literature.**—Study of typical works in the field of the novel and lyric, chiefly of the modern period; lectures on literary, social, and cultural backgrounds and tendencies; collateral readings and reports. This course is offered as an alternate to Spanish 66 (Introduction to Classical Spanish Literature) and will be accepted in fulfillment of major and graduation requirements. *A, I. 3 s.h.* MR. HERNÁNDEZ

**S174. Spanish Diction.**—Rapid survey of Spanish pronunciation; individual corrective exercises in pronunciation and intonation under guidance of native assistants; study and drill on prose and poetic selections with class recitation of same; phonograph demonstration of illustrative materials; prepared topical speeches; preparation of selected dramatic roles and presentation of same. Prerequisite for credit: three years of college Spanish. Enrollment limited to fifteen students. *B, I. 3 s.h.* MR. CASTELLANO

**S256. Great Modern Poets of Hispanic America.**—A study of the most important poets of Spanish America. Lectures; readings and analysis of the outstanding poems by Martí, Gutiérrez Nájera, Silva, Rubén Darío, Mistral, etc. *A, I. 3 s.h.* MR. BALSEIRO

**S263. Spanish Novelists of the Twentieth Century.**—A study of Four Great Individualists of Contemporary Spanish Literature: Blasco Ibáñez, Unamuno, Valle Inclán, Baroja. *B, I. 3 s.h.* MR. BALSEIRO

**S267. Human Types in the Spanish Classic Literature.**—A survey of Spanish literature of the Golden Age with the purpose of pointing out human tendencies and values in the great literary creations: *el Pícaro, el Héroe, el Caballero, el Místico.* *C, I. 3 s.h.* MR. SALINAS

**S282. Romanticism and Realism in the 19th Century.**—A study of the romantic and realistic tendencies from Larra to Galdós, with reference to traditional foundations and foreign influences. *B, I. 3 s.h.* MR. SALINAS



## ZOOLOGY

PROFESSOR IRVING E. GRAY, CHAIRMAN—218 BIOLOGY BUILDING (WEST CAMPUS);  
 PROFESSOR GEORGE T. HARGITT, DIRECTOR OF GRADUATE STUDIES—  
 326 BIOLOGY BUILDING (WEST CAMPUS)

For admission to candidacy for a Master's degree in Zoology, a student should have completed an undergraduate major in Zoology (courses in General Science and Botany are not counted as a part of a Zoology major). This normally amounts to about twenty-four semester hours, which should be distributed among the various fields of Zoology, and must include Vertebrate Zoology or Comparative Anatomy, Physiology, and Embryology, passed with creditable grades. A candidate should also have completed at least one year of Chemistry. Work for the degree will require eighteen hours in advanced courses in Zoology, and six hours in another department for a minor, in addition to a thesis. Before registration for a degree, students should confer with the Director of Graduate Studies for the Department. Students not candidates for a degree may take courses offered, if they have necessary prerequisites; but may not count them toward a degree until an undergraduate major has been completed.

**S1. General Zoology.**—A brief survey of the animal kingdom. *Lectures, recitations and laboratory daily, 8:00-12:00, 2:00-4:00. June 14 to July 9. 4 s.h.* MR. HORN

**S2. Animal Biology.**—The principles of biology as applied to animals. Prerequisite: Zoology 1. *Lectures, recitations and laboratory daily, 8:00-12:00, 2:00-4:00. July 11-August 6. 4 s.h.* MR. WHARTON

**S53. Comparative Vertebrate Anatomy.**—The anatomy and evolution of the organ systems of vertebrates. Prerequisite: Zoology 2. *Lectures, recitations and laboratory daily, 8:00-12:00, 2:00-4:00. June 14-July 9. 4 s.h.* MR. ROBERTS

**S92. General Embryology.**—The fundamental principles of embryology as illustrated in frog, chick, and mammal. Prerequisite: Zoology 53. *Lectures, recitations and laboratory daily, 8:00-12:00, 2:00-4:00. July 11-August 6. 4 s.h.* MR. JOHNSON

Courses at the Marine Laboratory, Beaufort, N. C. (Write for special bulletin of the Duke University Marine Laboratory.)

**S203. Marine Ecology.**—A study of marine animals in relation to environment. Consideration of environmental factors, succession, rhythms, communities, intraspecific and interspecific relations, productivity, conservation, problems, etc., concerned with animal life in the ocean. *Lectures, reviews, conference, field and laboratory work. June 14-July 21. 6 s.h.* MR. GRAY

**S274. Marine Invertebrate Zoology.**—A study of invertebrate animals that occur in the Beaufort region. A number of field trips will be made to a variety of habitats to study, collect, and classify animals in their natural environments. The structure, embryology, and habits of living invertebrates as well as their behavior under certain experimental conditions will be studied in the laboratory. *July 22-August 31. 6 s.h.* MR. BOOKHOUT

**S353. Research.**—Hours to be arranged. *June 14-August 31.* MR. GRAY AND MR. BOOKHOUT













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# BULLETIN OF DUKE UNIVERSITY

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*The School of Spanish Studies*



EIGHTH ANNUAL SESSION, 1949

JUNE 14 TO JUNE 21

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## Calendar of the School of Spanish Studies

- June 13 Monday—Registration and installation. *Residencia* opens at 9:00 A.M. *Comedor* opens at 12:00.
- 14 Tuesday, 7:40 A.M.—Instruction for the term begins.
- 17 Friday, 8:30 P.M.—Formal Reception.
- 24 Friday, 7:00 P.M.—*Fiesta de San Juan*.
- 25 Saturday, Classes according to regular schedule.
- 29 Wednesday, 8:15—Social evening.
- July 1 Friday—Mid-term quizzes.
- 4 Monday—A holiday.
- 6 Wednesday, Lectures on Spanish Art by Professor Salinas.
- 9 Saturday, Classes according to regular schedule.
12. Tuesday, Concert or Spanish film.
- 15 Friday, 7:30 P.M.—*Fiesta de la Sandía*.
- 19 Tuesday, Farewell dinner-party.
- 20 Wednesday, Final examinations begin.
- 21 Thursday, Final examinations end; close of session.

Classes do not meet on Saturdays except for those dates noted in the calendar.

# SUMMER SESSION ANNOUNCEMENT

## The School of Spanish Studies

(EIGHTH ANNUAL SESSION)



STUDENTS AND STAFF OF THE 1948 SCHOOL OF SPANISH STUDIES

## ADMINISTRATIVE AND INSTRUCTIONAL STAFF

A. HOLLIS EDENS, B.Ph., A.M., M.P.A.

President of Duke University

ARTHUR MARCUS PROCTOR, A.B., A.M., Ph.D.

Director of the Summer Session

JUAN R. CASTELLANO, Lic. en L., Dr. en F. y L.

Director of the School of Spanish Studies

GIFFORD DAVIS, A.B., A.M., Ph.D.

Associate Director of the School of Spanish Studies

JOSÉ A. BALSEIRO, A.B., LL.B.

Visiting Professor of Spanish

GUSTAVO HERNÁNDEZ

Visiting Associate Professor of Spanish

PEDRO SALINAS, Lic. en F. y L., Dr. en F. y L., Litt.D.

Visiting Professor of Spanish

TERRELL T. TATUM

Visiting Associate Professor of Spanish

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HELEN K. DE CASTELLANO, A.B., A.M.

Social Director and Counsellor

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### Assistants to Students

LILIANA BALSEIRO, A.B.

Native of Puerto Rico, Graduate Student, University of Miami, Miami, Florida

EDITH FELIÚ, A.B.

Native of Puerto Rico, Instructor at St. Genevieve-of-the-Pines,  
Asheville, N. C.

SILVIO CLARK

Native of Cuba, Graduate Assistant, University of Tennessee, Knoxville, Tenn.

# THE SCHOOL OF SPANISH STUDIES

## PURPOSE

The School of Spanish Studies is intended to offer to students and teachers an opportunity for intensive training in the knowledge and use of the Spanish language. It is designed to provide a basic orientation in the literature and cultural background of the Hispanic world. The work is intended for the following groups of persons:

1. High-school and college teachers who need review or further training and orientation for their professional equipment;
2. College teachers who wish to pursue advanced studies in Hispanic literature or cultural history;
3. Graduate students with a major or minor in Spanish;
4. Prospective teachers of Spanish and specialists in other fields (business, government service, history, etc.) whose work may require a knowledge of Spanish;
5. Undergraduates who are majoring in Spanish;
6. Undergraduates who plan to fulfill their requirement in foreign language by courses in Spanish and who desire more than a reading knowledge of the language.

## THE PROGRAM

The activities of the School of Spanish Studies, as far as possible, are conducted under conditions of segregation. A primary objective is to require the active use of the Spanish language in dormitories and dining halls as well as in the classroom. Students enrolled in the school are expected to learn Spanish by hearing and speaking the language. All living arrangements are made with the idea of facilitating and requiring the use of Spanish at all times. Students are asked to pledge themselves to the strict observance of this practice.

Courses are available on both the undergraduate and the graduate level. All courses numbered 200 or above carry graduate credit. Courses numbered under 200 carry only undergraduate credit. Undergraduates with the rank of Seniors may be admitted to 200 courses but not to courses numbered 300 or above.

Students who are matriculated for a graduate degree must, in addition to registering in the School of Spanish Studies, register in the Office of the Graduate School of Arts and Sciences. Prior to registration in the Graduate School Office the student must have his courses approved by the Director of Graduate Studies of the Department of Romance Languages. Application for admission to the Graduate School should be made as promptly as possible, certainly not later than June first. Write to Dean Paul M. Gross for a Graduate School Bulletin and the proper application blank for admission.

With regard to credit obtained during the summer term, the rule is that no student can obtain more than one semester hour of credit per week in



residence. Thus during the six weeks of the School of Spanish Studies the maximum credit that can be obtained is six semester hours.

### LIVING ACCOMMODATIONS

**Residencia.** The Spanish House (Crowell Quadrangle) will be the resident dormitory for all women students enrolled in the School of Spanish Studies. For room assignments, students will normally be grouped according to their ability to speak Spanish. Upon arrival students should consult with Mrs. Castellano, the house counsellor, with regard to securing a room assignment and a roommate that would afford them the best opportunity to use the language in keeping with their stage of advancement.

A separate house section will be available for men students. All rooms will be assigned on a priority basis and no guarantee of accommodations can be made to students who have not made advance reservations.

Spanish will be the language of the *Residencia*. English-speaking visitors are not admitted to the Spanish House except upon the approval of the Director of the school or of the Counsellor.

Residence halls will be open to students at 9:00 A.M. on June 13. Students should address their baggage to Crowell Quadrangle, West Campus, Duke University, Durham, N. C.

**Comedor.** A separate dining hall has been provided for the School of Spanish Studies. Here students, teachers, and assistants will meet and converse as table companions under a rotation system designed to provide frequent change of contact and acquaintance. These table contacts offer valuable supplementary training in the practical use of the language. Members of the School of Spanish Studies are expected to take their meals in the *Comedor* and to live in the *Residencia*, unless excused by the Director. This rule will not apply to students who are residents of Durham. These students, however, are expected to eat their noon and evening meals at the *Comedor*.

### CULTURAL, SOCIAL AND RECREATIONAL ACTIVITIES

**Charlas.** A special feature of the 1949 session will be the series of informal chats by Professor Salinas and other instructors.

**Fiestas.** La Fiesta de San Juan in celebration of Midsummer Eve, and La Fiesta de la Sandía have become school traditions. For these and other social occasions students should bring clothes for formal as well as informal dress. Especially appropriate will be such peasant costumes as those of the *china poblana*, the *charro*, the *gaucho*, etc. Persons who play the guitar, mandolin, or accordion should bring these instruments. Those who have some skill as singers, instrumentalists, or readers are invited to offer their talents for common enjoyment.

**Concerts and Other Entertainments.** In addition to the functions already listed the recreational program will include other appropriate numbers. There will be one concert or dance recital, one Spanish-language film, a student play, and several get-together *tertulias*.



GOZANDO DE LA SABROSA Y FRESCA SANDÍA

A flexible schedule of *horas de canto*, *partidos de croquet*, *torneos de bridge*, *horas del disco español*, and the like, will be arranged to fill the after-supper interval. All of these events are under the guidance of staff members who will furnish suitable commentaries and conversational topics. Quiet hours will be observed during the siesta period daily and from nine o'clock on each night. All of these functions will be conducted in Spanish. Except in emergencies no English speaking guests may be entertained in the *Residencia* parlors. Private radios are not permitted.

#### ADMISSIONS

Students are admitted to the School of Spanish Studies under the same regulations which govern admission to the regular Summer Session. Application for admission as an undergraduate must be approved by a dean of an undergraduate college or by the Director of the Summer Session. Application for admission as a graduate student must be approved by the Dean of the Graduate School or by the Director of the Summer Session.

A limited number of persons who may profit by the program of the school may be admitted as auditors upon payment of the fees. All applications for entrance as auditors must be approved by the Director of the School.

#### FEES AND EXPENSES

A registration fee of \$20.00 is charged to all students for a summer term of six weeks. Because of the extra facilities provided in the School of Spanish Studies an extra fee of \$10.00 is charged. The regular tuition fee is \$8.00 for each semester hour of course credit or a maximum of \$48.00 for a term of six weeks. Teachers in active full-time service are granted

a scholarship rebate amounting to one-half of the regular tuition, for not more than four terms of six weeks within a period of six years. Room rent is \$30.00 for a single room or \$21.00 each for a room occupied by two persons. Students living in the Spanish House are required to board in the dining hall set aside for them. Meals will be provided cafeteria style. The major items of expense for the School of Spanish Studies are:

Registration .....	\$ 20.00
Tuition .....	48.00
Room-rent (with roommate) .....	21.00
Board (estimated) .....	60.00
Medical service .....	3.50
Special Spanish School fee .....	10.00
Total for six weeks .....	<u>\$162.50</u>
Less scholarship rebate for teachers .....	24.00
Total for teachers for six weeks .....	<u>\$138.50</u>

### THE INSTRUCTIONAL STAFF

From its beginning the Duke University School of Spanish Studies has each year brought to its staff outstanding teachers, writers, and lecturers in the field of Hispanic studies. The staff has included natives of Spain, and of Latin-American countries, as well as specialists in Hispanic language and literature who are natives of the United States. Members of the staff have had wide experience in summer language school work and have had the benefit of foreign residence, travel, and study. Those who do not speak Spanish as their native tongue possess full facility in the use of the language. Both Castilian and Spanish-American pronunciation will be heard and taught.

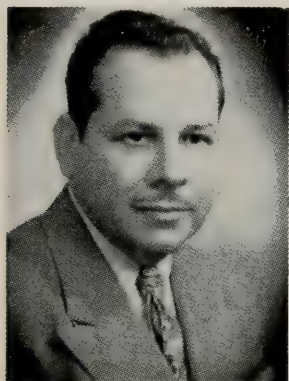
The 1949 session of the School of Spanish Studies brings back to its instructional staff two distinguished professors, one a native of Spain and the other a native of Puerto Rico. In addition a native of Cuba and two of the United States who are well known for their skill in teaching have been engaged. Native Latin-American assistants will provide valuable cultural and conversational contacts both in class and in social programs.



**Pedro Salinas**, who has achieved high distinction among the contemporary poets and critics of Spain, has held important teaching appointments both in his country and in other European universities. Middlebury College conferred on him the honorary degree of Doctor of Literature in 1937, and in 1947 he was granted the title of *Professor honoris causa* by the University of San Marcos in Lima (Peru). At present he is Professor of Spanish at Johns Hopkins University. He will offer this summer courses that promise to be even more inspiring than those taught by him last year.



**José Balseiro** taught with great success in the Duke School of Spanish Studies during the summer of 1947. He was educated in Puerto Rico and



has traveled extensively in Spain (where he lived and studied for several years), France, England, Italy and Belgium; he has taught at the University of Puerto Rico and at the University of Illinois; at present he is Professor of Hispanic Literatures at the University of Miami. The following honorary distinctions are a few of the many that have been conferred upon Sr. Balseiro: in 1926 his volume of critical studies *El Vigía* was awarded the prize of the Spanish Royal Academy as being the outstanding work of the year in Spanish criticism; in 1938 he was appointed delegate from the United States to the International Congress on the Teaching of Spanish-American

Literature, Mexico City; in 1945 he was elected President of the Puerto Rico Statehood Association.

**Juan R. Castellano**, Associate Professor of Romance Languages at Duke University, has been connected with the School of Spanish Studies since its inception. He has taught for many years at Vanderbilt University and in the summer schools of Middlebury College, Peabody, and the Universities of Ohio State and New Mexico. His experience in teaching Spanish to North Americans is reflected in a number of successful textbooks and articles in professional journals. From 1945-47 he was a member of the Executive Council of the American Association of Teachers of Spanish and Portuguese.

**Gifford Davis**, Associate Professor of Romance Languages at Duke University, holds the A.M. and Ph.D. from Harvard University. In addition to study at the universities of Grenoble and Paris, he spent the summer of 1947 in research and study in Spain. Dr. Davis has taught several summers in the School of Spanish Studies.

**Gustavo Hernández**, who received his education in Cuba and in the universities of the United States, is Associate Professor of Spanish and Head of the Spanish Department at Birmingham-Southern College. He is well known in the South for his teaching ability and his excellent papers before professional groups.

**Terrell Tatum**, Associate Professor of Spanish and Head of the Spanish Department at the University of Chattanooga, has traveled extensively in Spanish-speaking countries and is author of several translations of the works of Concha Espina, widely known textbooks and many reviews and articles in professional and literary magazines.

**Helen Kennard de Castellano**, Instructor of Romance Languages at Duke University, is a graduate of Brown and Middlebury Colleges. She has travelled widely in Spanish-speaking countries and was an instructor at Vanderbilt University before coming to Duke. She has been connected with

the Duke University School of Spanish Studies since it was started and will serve as Social Director and Counsellor this summer.

### Courses of Instruction

**S1. Introductory Spanish.**—Pronunciation; essentials of grammar; dictation exercises; early reading of simple prose; consistent use of the language as a means of instruction and as a means of attaining a basic aural command. This concentrated work requires the student's full time since it calls for two double period classes daily. *A, C (June 15-June 30). 3 s.h.* STA. TATUM

**S2. Introductory Spanish.**—Continuation of course S1. *A, C (July 5-July 19). 3 s.h.* STA. TATUM

NOTE: A student enrolled in Spanish S2 must also attend Spanish S1.

**S3. Intermediate Spanish.**—Systematic review of verbs; drill on high frequency idioms; review of special grammatical difficulties; dictation exercises and oral drill; reading of graduated selections of modern prose. *A. 3 s.h.* SR. DAVIS

**S4. Intermediate Spanish.**—Reading of modern short stories and novels, with emphasis on achievement of ability to read without translation; continued oral-aural exercises; dictation exercises; idiom study; grammar review as necessary. *C. 3 s.h.* SR. HERNÁNDEZ

**S65. Introduction to Modern Spanish Literature.**—Study of representative masterpieces of modern novel and drama; brief lectures in Spanish; collateral readings. *C. 3 s.h.* SR. DAVIS

**S68. Introduction to Spanish-American Literature.**—Study of typical modern works; lectures on literary, social, and cultural backgrounds and tendencies; collateral readings and reports. *A. 3 s.h.* SR. HERNÁNDEZ

**S174. Spanish Diction.**—Rapid survey of Spanish pronunciation; individual corrective exercises in pronunciation and intonation under guidance of native assistants; study and drill on prose and poetic selections with class recitation of same; prepared topical speeches; preparation of selected dramatic roles. Prerequisite: three years of college Spanish, or Spanish teaching experience and consent of the instructor. *B. 3 s.h.* SR. CASTELLANO AND ASSISTANTS

**S256. Los Grandes Poetas Modernos de Hispanoamérica.**—Estudio de los principales poetas de Hispanoamérica. Conferencias y examen de las críticas sobresalientes acerca de Martí, Casal, Rubén, Darío, Amado Nervo, Gabriela Mistral, etc.; lectura y análisis de los poemas más representativos. *A. 3 s.h.* SR. BALSEIRO

**S263. Novelistas Españoles del Siglo XX.**—Estudio de la vida y obras de los cuatro grandes individualistas de la literatura española contemporánea: Blasco Ibáñez, Unamuno, Valle Inclán, Baroja y de otros autores representativo. *B. 3 s.h.* SR. BALSEIRO

**S267. Los Valores Humanos en la Literatura Española Clásica:** el Héroe, el Caballero, el Pícaro, el Místico.—Examen general de la literatura clásica española con objeto de mostrar la variedad de tendencias psicológicas representadas en la creación literaria del Siglo de Oro. *C. 3 s.h.* SR. SALINAS

**S282. Romanticismo y Realismo en el Siglo XX.**—Estudio de las tendencias románticas y realistas desde el principio de siglo, referencia a lo que tienen de tradicionalista y retrospectivo y lo que tienen de innovador. *B. 3 s.h.* SR. SALINAS







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# BULLETIN OF DUKE UNIVERSITY

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*The School of Nursing*  
*The Division of Nursing Education*  
1949-1950



PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

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For BULLETIN OF THE SUMMER SESSION, apply to *The Director of the Summer Session*, Duke University, Durham, N. C.

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BULLETIN  
OF  
DUKE UNIVERSITY  
THE SCHOOL OF NURSING



1949-1950

DURHAM, NORTH CAROLINA  
1949



## CALENDARS OF THE COLLEGES

### Summer Session

1949

- June 13 Monday—Registration for first term of Summer Session.  
June 14 Tuesday—Instruction begins for Summer Session, first term.  
July 21 Thursday—Examinations begin for first term of Summer Session.  
July 23 Saturday—Registration for second term.  
July 25-29 Monday—Institute on Improving Nursing Care.  
Sept. 1 Thursday—Examinations begin for second term of Summer Session.

### Academic Year 1949-50

- Sept. 15 Thursday, 9:00 A.M.—Baker House open to Freshmen.  
Sept. 16 Friday—Registration, orientation, School of Nursing.  
Sept. 20 Tuesday—Registration and matriculation of new students with advanced standing, Woman's College.  
Sept. 22 Thursday—Instruction begins.  
Oct. 10 Monday—Assembly of all students in School of Nursing.  
Nov. 24 Thursday—Thanksgiving Day: a holiday.  
Dec. 11 Sunday—Founders Day.  
Dec. 20 Tuesday, 12:30 P.M.—Christmas recess begins (campus classes and first-year students).

1950

- Jan. 4 Wednesday, 8:00 A.M.—Instruction is resumed.  
Jan. 9 Monday, 7:45 P.M.—All student assembly.  
Jan. 18 Wednesday—Mid-year examinations begin for graduate nurses.  
Jan. 30 Monday—Registration and matriculation of new graduate nurse students.  
Feb. 1 Wednesday—Second semester begins.  
March 18 Saturday—Capping first-year students.  
March 25 Saturday, 12:30 P.M.—Spring vacation begins for campus students.  
April 3 Monday, 8:00 A.M.—Instruction is resumed for campus classes.  
April 10 Easter Monday—Vacation.  
May 22 Monday—Final examinations for second semester begins for graduate nurses.  
May 29 Monday—All student assembly.  
June 5 Monday—Commencement Address: Graduating Exercises.

## OFFICERS OF ADMINISTRATION

### GENERAL ADMINISTRATION

EDENS, ARTHUR HOLLIS, B.Ph., A.M., M.P.A. <i>President of the University</i>	West Campus
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### SCHOOL OF NURSING

WILSON, FLORENCE K., A.B., R.N., M.A. <i>Dean of the School of Nursing</i>	Faculty Apartments
SMITH, DOROTHY M., R.N., B.S., M.S. <i>Assistant to Dean in Charge of Nursing Education</i>	205 Cornwallis Road
JEFFERS, FRANCES C., A.B., A.M. <i>Student Counselor</i>	Baker House
DEWITT, MAREE, R.N., B.S., M.A. <i>Assistant Director in Charge of Nursing Service</i>	Baker House

### DIVISION OF NURSING EDUCATION

#### Department of Education

BRINKLEY, ROBERTA FLORENCE, A.B., M.A., Ph.D. <i>Dean of Woman's College</i>	East Campus
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PERSONS, MRS. ELIZABETH ANDERSON, A.B., A.M. <i>Director of Admissions, Woman's College</i>	612 Swift Avenue
BROWNELL, WILLIAM ARTHUR, A.B., A.M., Ph.D., LL.D. <i>Chairman, Department of Education</i>	Hope Valley
NAHM, HELEN, R.N., A.B., M.S., Ph.D. <i>Director, Division of Nursing Education</i>	Faculty Apartments

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**COMMITTEES OF THE SCHOOL OF NURSING**

*Curriculum:* D. Smith, Chairman, Boring, Crawley, Elliott, Galloway, Hunter, Miller, Nahm, Petrea, Williams, Yearick.

*Evaluation of Student Progress:* D. Smith, Chairman, Abbott, Adams, Anderson, Carter, Crawley, Elliott, Fluellen, Heath, Hunter, Jeffers, Nahm, Slaybaugh, Suitt.

*Admissions:* F. Wilson, Chairman, Anderson, Jeffers, Petrea, Slaybaugh, H. Smith, Solomonson, Dr. Taylor.

*Library Committee:* E. Morgan, Chairman, Heath, Horton, Jeffers, Oakes, Sherwood, Solomonson.

*Procedure Committee:* Hunter, Chairman, DeWitt, Dratz, Elliott, Maness, Moss, Pegram, Petrea, Sherwood, Williams. Student representatives: Barnhart, Olive.

*Graduate Nurse Education:* Nahm, Chairman, Bason, Crawley, DeWitt, Heath, Hunter, Miller, Quarmby, Smith, Stallings, Wilson. Student representatives: Deans, Franklin.

*Education Facilities:* Williams, Chairman, Carter, Elliott, Galloway, Quarmby.

## INSTRUCTIONAL STAFF—SCHOOL OF NURSING

FLORENCE K. WILSON, B.A., M.A., R.N.

*Professor of Nursing Education*

University of Michigan, B.A., 1913; Vassar Training Camp for Nurses, 1918; Diploma, City Hospital School of Nursing, 1920; Western Reserve University, M.A., 1930; Associate Professor of Nursing Education, Syracuse University, 1943-45; Director of School of Nursing, Syracuse Memorial Hospital, 1937-1945; Instructor and Supervisor of Medical Nursing, New York Hospital, 1934-37; Instructor and Supervisor, Western Reserve University School of Nursing, 1923-29; Research Assistant, Committee on Grading of Schools of Nursing, 1929-30; Professor of Nursing Education, 1947; *Dean of School of Nursing*, 1946—.

DOROTHY MARY SMITH, R.N., B.S., M.S.

*Assistant Professor of Nursing Education*

Diploma, Quincy City Hospital, Quincy, Mass., 1936; B.S. Degree, Teachers College, Columbia University, 1941; M.S., Harvard University, Boston, Mass., 1947; General Duty, Quincy City Hospital, 1936; Ass't Head Nurse and Head Nurse, Quincy City Hospital, 1937-41; Science Instructor, Margaret Pillsbury Hospital, Concord, N. H., 1941-42; Science and Nursing Arts Instructor (Ass't), Quincy City Hospital, 1942-43; Educational Director and Science Instructor, Quincy City Hospital, 1943-47; *Assistant Professor of Nursing Education, Duke Hospital*, 1947—.

FRANCES C. JEFFERS, A.B., A.M.

*Assistant Professor of Nursing Education and Student Counselor*

A.B., University of Missouri, 1927; Secretary to the President, Haverford College, Haverford, Pa., 1930-40; Assistant Personnel Director, University of Washington, Seattle, Washington, 1942; Evening Director of Student Activities House, College of City of New York, New York City, 1944-45; A.M., Teachers College, Columbia University, 1945; Counselor to Women, University of Alabama, University, Ala., 1945-47; *Assistant Professor of Nursing Education and Student Counselor, Duke University School of Nursing*, 1947—.

MAREE DEWITT, R.N., B.S., M.A.

*Assistant Director in Charge of Nursing Service*

Diploma, University of Iowa Hospital, Iowa City, Iowa, 1925; Head Nurse, University of Iowa Hospital, 1925-29; Night Supervisor, Decatur and Macon County Hospital, Decatur, Ill., 1929-30; Natrona County Hospital, Casper, Wyoming, 1933-34; Obstetrical Supervisor and Clinical Inst., University Hospital, Charlottesville, Va., 1934-43; Chief Nurse, U. S. Army Nurse Corps, U. S. and England, 1943-46; B.S. Degree, University of Virginia, Charlottesville, Va., 1947; M.A. Degree, Columbia University, New York, 1948; *Assistant Director in Charge of Nursing Service, Duke Hospital*, 1948—.

RUTH E. HUNTER, R.N., B.S.

*Instructor in Principles and Practice of Nursing*

Diploma, The Swedish Hospital School of Nursing, Minneapolis, Minn., 1943; B.S. in Nursing Education, University of Minnesota, 1944; Nursing Arts Instructor, University of Minnesota School of Nursing, 1944-46; *Instructor in Principles and Practice of Nursing, Duke University*, 1946—.

RUTH MARGUERITE ADAMS, R.N.

*Clinical Instructor in Operating Room Technique*

Diploma, University of Minnesota School of Nursing, Minneapolis, Minnesota, 1940; General Staff duty, Operating Room, Minneapolis General Hospital, 1941-42; Assistant Floor Supervisor, Operating Room, Minneapolis General, 1942-44; Instructor and Supervisor in Operating Room, Minneapolis General, 1944-47; *Clinical Instructor in Operating Room Technique, Duke Hospital*, 1947—.

## DUKE UNIVERSITY

MILDRED M. SHERWOOD, R.N.

*Supervisor of Pediatric Nursing Service*

Diploma, Mount Sinai Hospital, New York City, 1923; Head Nurse, Mount Sinai Hospital, 1923-26; Head Nurse, Johns Hopkins Hospital, 1926-30; *Supervisor of Pediatric Nursing Service, 1930—.*

HATTIE MILDRED CRAWLEY, R.N., B.S.

*Clinical Instructor in Pediatric Nursing and Assistant Supervisor of Pediatric Nursing Service*

Mitchell College, Statesville, N. C., 1940-41; Diploma and B.S. in Nursing, Duke University School of Nursing, 1944; Head Nurse on Women's Medical Ward, Duke Hospital, July, 1944-December, 1944; Staff Nurse, Children's Hospital of Philadelphia, February, 1945-April, 1945; Assistant Clinical Instructor, Children's Hospital of Philadelphia, April, 1945-February, 1946; *Clinical Instructor in Pediatric Nursing and Assistant Supervisor of Pediatric Nursing Service, 1946—.*

MARY C. WILLIAMS, R.N.

*Clinical Instructor in Medical Nursing and Assistant Supervisor of Medical Nursing Service*

Diploma, Duke University School of Nursing, 1936; Sternberger Hospital, Greensboro, N. C., 1937; Medical-Social Worker, N. C. State Commission for the Blind, 1937-39; Night Supervisor, Sternberger Hospital, Greensboro, N. C., 1939; Ass't Night Supervisor, Duke University Hospital, 1939-42; Chief Nurse, Medical Service, ANCAUS, 1942-45; Head Nurse, Sternberger Hospital, 1945-47; University of North Carolina, 1947; *Clinical Instructor in Medical Nursing and Assistant Supervisor of Medical Nursing Service, Duke University Hospital, 1947—.*

MARJORIE HEATH, R.N.

*Clinical Instructor in Medical Nursing and Supervisor of Medical Nursing Service*

Hunter College, 1931; Diploma, Lenox Hill Hospital, New York City, 1935; General Staff Nurse, Lenox Hill Hospital, 1935-36; Head Nurse, Lenox Hill Hospital, 1936-37; New York University, 1938-42; General Public Health Service, Alleghany County, New York, 1942-47; *Clinical Instructor in Medical Nursing and Supervisor of Medical Nursing Service, 1947—.*

THERESA ELIZABETH HORTON, R.N., B.S.

*Clinical Instructor in Obstetric and Gynecological Nursing and Supervisor of Obstetrical and Gynecological Nursing Service*

Catawba College, Salisbury, N. C., 1936-38; Diploma and B.S. in Nursing, Duke University School of Nursing, 1941; Staff Nurse, 1941-42; Assistant Head Nurse on Colored Obstetrical and Gynecological Ward, 1942-43; Head Nurse on Colored Obstetrical and Gynecological Ward, 1943-44; Assistant Instructor and Assistant Supervisor of Obstetrics and Gynecological Nursing, 1944-45; *Clinical Instructor in Obstetric and Gynecological Nursing and Supervisor of Obstetrical and Gynecological Nursing Service, 1945—.*

GERTRUDE HERMIE ELLIOTT, R.N.

*Assistant in Obstetric and Gynecological Nursing and Assistant Supervisor of Obstetrical and Gynecological Nursing Service*

Diploma, Mission Hospital, Asheville, N. C., 1943; Head Nurse on Obstetrical Service, Mission Hospital, Sept. to Dec. 15, 1943; Supervisor of Obstetrical Service, Mission Hospital, 1943-46; Post-graduate student, Margaret Hague Maternity Hospital, Jersey City, N. J., 1946 (6 months); Supervisor of Obstetrical Service, Mission Hospital, 1946-47; *Assistant in Obstetric and Gynecological Nursing and Assistant Supervisor of Obstetrical and Gynecological Nursing Service, Duke University Hospital, 1948—.*

MARY F. QUARMBY, A.R.C.M., R.N.

*Supervisor and Clinical Instructor in Psychiatric Nursing*

A.R.C.M., Toronto Conservatory of Music, University of Toronto, 1935; Diploma, Royal Victoria Hospital, Montreal, Quebec, Canada, 1943; Diploma, N. Y. Psychiatric Institute and Hospital, New York City, 1948; Head Nurse in Psychiatric Division, Royal Victoria Hospital, 1944-45; Assistant Head Nurse on Psychiatric Ward, Duke University Hospital, December, 1946-July, 1947; *Supervisor and Clinical Instructor in Psychiatric Nursing, Duke University Hospital, 1948—.*



N. RUTH CARTER, B.S., R.N.

*Clinical Instructor in Surgical Nursing and Supervisor of Surgical Nursing Service*

B.S., Queens College, 1940-43; Diploma, The Johns Hopkins School of Nursing, 1946; Ass't Head Nurse, Acting Head Nurse, The Johns Hopkins Hospital, 1946-47; Orthopedic Staff Nurse, Charlotte Memorial Hospital, 1947; Assistant Night Supervisor, Duke University Hospital, 1947-48; Ass't in Surgical Nursing and Ass't Supervisor of Surgical Nursing Service, February, 1948-September, 1948; *Clinical Instructor in Surgical Nursing and Supervisor of Surgical Nursing Service, September, 1948—*.

MARGARET PETREA, A.B., R.N., B.S.

*Assistant Clinical Instructor in Surgical Nursing and Assistant Supervisor of Surgical Nursing Service*

A.B., Lenoir-Rhyne College, Hickory, N. C., 1944; Diploma and B.S. Degree in Nursing, Duke University School of Nursing, 1947; Nursing Office Supervisor, May, 1947-Oct., 1947; Assistant Head Nurse on Men's Surgical Ward, Oct., 1947-Sept., 1948; *Ass't Clinical Instructor in Surgical Nursing and Assistant Supervisor of Surgical Nursing Service, Oct., 1948—*.

MARGARET MILLER, R.N.

*Assistant in Clinical Education*

Queens College, Charlotte, N. C., 1931-32; Woman's College, University of North Carolina, Greensboro, N. C., 1942; Diploma, Duke University School of Nursing, 1946; Assistant Instructor in Surgical Nursing and Supervisor of Surgical Nursing Service, 1946-48; Clinical Instructor in Surgical Nursing and Supervisor of Surgical Nursing Service, 1948-Sept., 1948; *Assistant in Science, Sept., 1948—*.

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*Assistant in Principles and Practice of Nursing*

B.S. Degree, Western Carolina Teachers College, 1942; Diploma, Johns Hopkins Hospital School of Nursing, 1945; Navy Nurse Corps, 1945-46; Science Instructor, Shelby Hospital, Shelby, N. C., 1946; *Assistant in Principles and Practice of Nursing, Duke University School of Nursing, 1947—*.

OLIVE GALLOWAY, R.N., B.S.

*Assistant in Principles and Practice of Nursing*

Diploma, Emory University Hospital School of Nursing, 1943; B.S., Florida State College for Women, 1945; Instructor in Nursing Arts and Science, Municipal Hospital, Tampa, Florida, 1945-47; *Assistant in Principles and Practice of Nursing, 1947—*.

WANDA A. SLAYBAUGH, A.B., R.N.

*Assistant in Principles and Practice of Nursing*

Diploma, Saint Luke's Hospital School of Nursing, Cleveland, Ohio, 1944; A.B., Ohio Northern University, Ada, Ohio, 1944; Assistant Head Nurse, Starling-Loving Hospital, Ohio State University, Columbus, Ohio, 1944-45; Army Nurse Corps, 1945-46; Instructor, Nursing Arts, Jameson Memorial Hospital, New Castle, Pennsylvania, 1946-47; Duke University, 1947; *Assistant in Principles and Practice of Nursing, Duke University Hospital, 1947—*.

## INSTRUCTIONAL STAFF

Division of Nursing Education, Department of Education

HELEN NAHM, R.N., B.S., M.S., Ph.D., *Director, Division of Nursing Education.*

R.N., Univ. of Missouri Sch. of Nursing, 1924; A.B., University of Missouri, 1926; M.S., Univ. of Minnesota, 1939; Ph.D., Univ. of Minnesota, 1946; Instr., Scott and White Hospital, 1927-1930; Dir., Univ. of Missouri Sch. of Nursing, 1935-1941; Dir., Hamline-Asbury Sch. of Nursing, St. Paul, Missouri, 1942-1945; *Director, Division of Nursing Education, Duke University, 1946—*.

WILSON, FLORENCE K., B.A., M.A., R.N., *Professor of Nursing Education.*

HUNTER, RUTH, R.N., B.S., *Instructor in Principles and Practice of Nursing.*

SMITH, DOROTHY, R.N., B.S., M.S., *Assistant Professor of Nursing Education.*

### LECTURERS

BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D., LL.D., *Professor of Educational Psychology.*

### MEMBERS OF OTHER FACULTIES OF THE UNIVERSITY GIVING INSTRUCTION

EDWIN PASCAL ALYEA, S.B., M.D., *Clinical Professor of Urology.*

S.B., Princeton, 1919; M.D., Johns Hopkins, 1923; Int. in Med., Int. and Ass't Res. in Surg.; Ass't Res. and Res. in Urol., Johns Hopkins Hosp., 1923-1929; Ass't and Instr. in Surg. and Instr. in Urol., Johns Hopkins Med. Sch., 1925-1929; *Urologist, Duke Hospital, 1930—.*

WILLIAM BANKS ANDERSON, A.B., M.D., *Associate Professor of Surgery in Charge of Ophthalmology.*

A.B., North Carolina, 1920; M.D., Johns Hopkins, 1924; Int., Union Mem. Hosp., Balto., 1924-1925; Int., Mass. Eye and Ear Infirmary, 1925-1927; *Ophthalmologist, Duke Hospital, 1930—.*

LENOX DIAL BAKER, M.D., *Associate Professor of Surgery in Charge of Orthopaedics.*

M.D., Duke, 1933; Int. in Orth. Surg. and in Gen'l Surg.; Ass't Res. in Orth. Surg., and Res. in Orth., Johns Hopkins Hosp., 1933-1937; Res., Children's Hosp. Sch., 1936; Ass't and Instr., Orth. Surg., Johns Hopkins Med. Sch., 1935-1937; *Orthopaedist, Duke Hospital, 1937—.*

JASPER LAMAR CALLAWAY, B.S., M.D., *Associate Professor of Medicine in Charge of Dermatology and Syphilology.*

M.D., Duke, 1932; B.S., Alabama, 1935; Ass't Instr. in Derm. and Syphil., Univ. of Pa. Med. Sch., 1932-1933; Int. and Ass't Res. in Med., Duke Hosp., 1933-1935; Instr. in Phys. Diag. and Path., Univ. of Alabama, Jan.-July, 1935; Instr. in Derm. and Syphil., Pa. Sch. of Med., 1935-1937; Ass't Field Physician, U. S. Public Health Serv., Feb.-July, 1937; *Associate Physician and Dermatologist, Duke Hospital, 1937—.*

BAYARD CARTER, A.B., B.A., M.A., M.D., *Professor of Obstetrics and Gynecology and Chairman of the Department.*

A.B., Delaware, 1920; B.A. and M.A., Oxford, 1923 and 1924; M.D., Johns Hopkins, 1925; Member Obs. and Gyn. Staff of New Haven Hosp. and Yale Med. Sch., 1925-1929; Assoc. Prof. Obs. and Gyn., and Head of Dept., Univ. of Va. Med. Sch., 1929-1931; *Obstetrician and Gynecologist, Duke Hospital, 1931—.*

NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Professor of Mycology and Associate Professor of Bacteriology.*

B.S., Bates, 1930; A.M. and Ph.D., Harvard, 1931 and 1933; Research Fellow, Laboratoire de Parasitologie, Fac. de Medicine, Paris, 1933-1934; Research Ass't, Harvard Med. Sch. and Mass. Gen'l. Hosp., Jan. 1 to Oct. 1, 1935; Assoc. Prof. of Bacteriology and Mycology, 1935-1946; *Mycologist, Duke Hospital, 1946—.*

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., M.D., D.Sc., LL.D., *Dean of the School of Medicine and Professor of Pediatrics.*

A.B., Princeton, 1913; B.A., B.Sc., and M.A., Oxford, 1915, 1916, and 1919; M.D., Johns Hopkins, 1917; D.Sc., Wake Forest, 1932; LL.D., North Carolina, 1944; Int., Radcliffe Infirmary, 1915-1916; Capt., Med. Corps, A.E.F., 1917-1919; Ass't Res., Assoc. Ped., Acting Pediatrician in Charge, Johns Hopkins Hosp., 1919-1927; Instr., Med. Sch., 1919-1927; *Pediatrician, Duke Hospital, 1927—.*

SUSAN COONS DEES, A.B., M.S., M.D., *Assistant Professor of Pediatrics.*

A.B., Goucher, 1930; M.D., Johns Hopkins, 1934; M.S., Minnesota, 1938; Int., Johns Hopkins Hosp., 1934-1935; and Ass't Res. in Med., Strong Mem. Hosp., 1935-1936; Int. in Path., Balto. City Hosps., and Ass't. Johns Hopkins Protein Clinic, 1936-1937; Research Fellow in Ped., Univ. of Minnesota Hosp., 1937-1938; Ass't Disp. Physician, Johns Hopkins Hosp., 1938-1939; *Assistant Pediatrician, Duke Hospital, 1939—.*

WATT WEEMS EAGLE, A.B., M.D., *Associate Professor of Surgery in Charge of Otolaryngology.*

A.B., North Carolina, 1918; Grad. Stud., North Carolina, 1918-1919; M.D., Johns Hopkins, 1925; Int., Church Home and Infirmary, Baltimore, 1925-1926; Int., Ass't Res. and Res. in Laryngol., Johns Hopkins Hosp., 1926-1929; Ass't and Instr. in Laryngol., Johns Hopkins Med. Sch., 1927-1930; *Otolaryngologist, Duke Hospital, 1930—.*

JEWETT GOLDSMITH, A.B., M.D., *Assistant in Neuropsychiatry.*

A.B., The Johns Hopkins University, 1938; M.D., University of Maryland, 1942; Rotating Intern, Kings County Hospital, Brooklyn, N. Y., 1942-1943; Lieut., Medical Corps, U. S. Naval Reserve, 1943-1946; *Veterans Administration Senior Resident in Psychiatry, Duke Hospital, 1946—.*

JEROME SYLVAN HARRIS, A.B., M.D., *Assistant Professor of Pediatrics and Biochemistry.*

A.B., Dartmouth, 1929; M.D., Harvard, 1933; Med. House Officer, House of Good Samaritan, Boston, Oct., 1933-Jan., 1934; Int. in Med., Univ. of Chicago Clinics, 1934-1935; Int., Infants and Children's Hosp., Boston, 1935-1936; Ass't Res. and Assistant Pediatrician, Duke Hosp., 1936-1942; Lt. Col., Med. Corps, U. S. Army, 1942-1945; *Assistant Pediatrician, Duke Hospital, 1946—.*

DERYL HART, A.B., A.M., M.D., *Professor of Surgery and Chairman of the Department.*

A.B. and A.M., Emory, 1916 and 1917; M.D., Johns Hopkins, 1921; Int. in Surg., Ass't Res. in Surg. Path., Ass't Res. and Res. in Surg., and Assoc. Surg., Johns Hopkins Hosp., 1921-1930; Ass't in Path., Instr., and Assoc. in Surg., Johns Hopkins Med. Sch., 1922-1930; *Surgeon, Duke Hospital, 1930—.*

LESLIE BENJAMIN HOHMAN, A.B., M.D., *Professor of Neuropsychiatry.*

A.B., Univ. of Missouri, 1912; M.D., Johns Hopkins, 1917; Int., Ass't Res. and Res., Henry Phipps Psychiatric Clinic., Johns Hopkins Hospital, 1917-1922; U. S. Army, 1917-1919; Priv. Practice, 1922-1943; Associate in Psych., Johns Hopkins, 1922-1924; Lecturer in Psych., Univ. of Maryland, 1939-1943; Comdr., Med. Corps, U. S. Navy, 1943-1946; Ass't Prof. of Psych., Johns Hopkins, 1944-1946; *Neuropsychiatrist, Duke Hospital, 1946—.*

HELEN LOUISE KAISER, R.P.T.T., *Instructor in Physical Therapy, in Charge of Division of Physical Therapy.*

R.P.T.T., Harvard, 1921; Ass't Instr., Harvard Med. Sch. Course for Graduates, 1921-1922; Chief Phys. Therap., Detroit Orthop. Clinic, 1922-1925; Cleveland Clinic Found., 1926, and Mt. Sinai Hosp., 1927-1943; *Physical Therapist, Duke Hospital, 1943—.*

ANGUS McBRYDE, B.S., M.D., *Assistant Professor of Pediatrics.*

B.S., Davidson, 1924; M.D., Pennsylvania, 1928; Int. and Res. in Ped., Univ. of Pa. Hosp., 1928-1930; Ass't Res. in Ped., Johns Hopkins Hosp. and Ass't in Ped., Johns Hopkins Med. Sch., 1930-1931; *Assistant Pediatrician, Duke Hospital, 1931—.*

MAUDE McCracken, A.B., M.S., *Instructor in Medical Social Service.*

A.B., Duke, 1930; M.S., Simmons, 1941; *Ass't and Chief of Medical Social Service, Duke Hospital, 1941—.*

JOSEPH ELDRIDGE MARKEE, B.S., Ph.D., *Professor of Anatomy and Chairman of the Department.*

B.S. and Ph.D., Chicago, 1925 and 1929; Douglas Smith Fellow in Anat., 1929; Instr. in Anat., Chicago, 1929; Research Fell., Gen. Ed. Bd., Carnegie Lab. of Embry., Balto., 1935-1936; Visiting Prof. of Anat., Univ. of Tenn., 1942; Instr., Ass't Prof., Assoc. Prof. and Prof. of Anat., Stanford, 1929-1943; *1943—.*

DONALD STOVER MARTIN, A.B., M.D., M.P.H., *Professor of Preventive Medicine and Public Health and Associate Professor of Bacteriology.*

A.B., Johns Hopkins, 1925; M.D., Rochester, 1930; M.P.H., Columbia, 1946; Int. in Ped., Strong Mem. Hosp., 1930-1931; Ass't in Physiol. and Ass't in Bact., Rochester Med. Sch., 1926-1927 and 1931-1932; Associate Professor of Bacteriology and Associate in Med., Duke Hosp., 1932-1946; *Epidemiologist, Duke Hospital, 1946—.*

ELSIE W. MARTIN, A.B., M.S., *Professor of Dietetics.*

A.B., Whitman, 1913; M.S., Teachers Coll., Columbia, 1927; Prof. of Home Economics, Puget Sound, 1915-1917; Dietitian, Univ. of Iowa Hosp., 1919-1920, and Charles T. Miller Hosp., St. Paul, Minn., 1920-1926; Admin. Dietitian, Lakeside Hosp., Cleveland, 1927-1930; *Chief Dietitian, Duke Hospital, 1930—.*



RUTH CAMPBELL MARTIN, B.A., M.D., *Assistant Professor of Surgery in Charge of Anesthesiology.*

B.A., Texas Christian, 1937; M.D., Washington, 1941; Int., Rotat., Deaconess Hosp., St. Louis, Mo., 1941-1942; Ass't Res., Res. and Instr. in the Dept. of Anes., Billings Hosp., 1942-1944; *Anesthetist, Duke Hospital, 1944—.*

MARTHA ELIZABETH MATTHEWS, A.B., O.T.R., *Director of Occupational Therapy.*

A.B., Winthrop College, 1933; O.T.R., Richmond Professional Institute of William and Mary, 1947; *Director of Occupational Therapy, Duke University Hospital, 1947—.*

ELIJAH EUGENE MENEFEE, JR., B.S., M.D., *Assistant Professor of Medicine.*

B.S. and M.D., Duke, 1936; Int., N. Y. State Sanatorium, Raybrook, July 1-Aug. 31, 1936; Int. in Med., Duke Hosp., 1936-1937; Research Fellow in Med. and Bact., Duke Med. Sch., 1937-1938; Ass't Cardiology, Mass. Gen. Hosp., 1938-1939; Res. in Tbc., Bellevue Hosp., New York City, Jan. 1-Dec. 31, 1939; *Assistant Physician, Duke Hospital, 1940—.*

EDWARD STEWART ORGAIN, M.D., *Assistant Professor of Medicine.*

M.D., Virginia, 1930; Int. Ass't Res. and Res. in Med., Univ. Hosp., Cleveland, 1930-1933; Res. Fellow in Med., assigned to Cardiology, Mass. Gen'l. Hosp., 1933-1934; *Assistant Physician, Duke Hospital, 1934—.*

WALTER SCOTT PERSONS, A.B., *Instructor in Physical Education.*

KENNETH LEROY PICKRELL, M.D., *Associate Professor of Surgery.*

M.D., Johns Hopkins, 1935; Int., Ass't Res. and Res. in Surg., Johns Hopkins Hosp., 1935-1944; *Assistant Surgeon, Duke Hospital, 1944—.*

CHARLES HENRY SAWYER, A.B., Ph.D., *Associate Professor of Anatomy.*

A.B., Middlebury, 1937; Ph.D., Yale, 1941; Ass't in Biol., Middlebury, 1936-1937; Ass't in Zool., Yale, 1938-1941; Instr. in Anat., Stanford, 1941-1943; Visiting Ass't Prof. of Zool., Yale, 1946 (summer); 1944—.

MARY CLYDE SINGLETON, B.S., R.P.T.T., *Assistant in Physical Therapy.*

B.S., Woman's College, University of North Carolina, Greensboro, N. C., 1932; R.P.T.T., Washington School of Physical Education, Washington, D. C., 1934; Assistant in Physical Therapy, Watts Hospital, Durham, N. C., 1934-35; Assistant in Physical Therapy, Veterans Administration, Walla Walla, Washington, 1935-36; *Clinical Supervisor, Physical Therapy Department, Duke Hospital, 1940—.*

EUGENE ANSON STEAD, JR., B.S., M.D., *Florence McAlister Professor of Medicine and Chairman of the Department.*

B.S. and M.D., Emory Univ., 1928 and 1932; Int. Med., Peter Bent Brigham Hosp., 1932-1933; Research Fellow in Med., Harvard, 1933-1934; Int. Surg., Peter Bent Brigham Hosp., 1934-1935; Ass't Res. in Med., Cincinnati Gen'l. Hosp., 1935-1936; Res. in Med., Cincinnati Gen'l. Hosp., 1936-1937; Instr. in Med., Univ. of Cincinnati, 1935-1937; Res. Phys., Thorndike Memorial Laboratory; Ass't in Med., Harvard and Boston City Hosp., 1937-1939; Associate in Med., Peter Bent Brigham Hosp., 1939-1942; Instr. in Med., Harvard, 1939-1941; Assoc. in Med., Harvard, 1941-1942; Act. Phys.-in-Chief, Peter Bent Brigham Hosp., 1942; Prof. of Med. and Phys.-in-Chief, Emory Div. of Grady Hosp., 1942-1946; Dean, Emory Univ. Sch. of Med., 1945-1946; *Physician, Duke Hospital, 1947—.*

HARVEY GRANT TAYLOR, A.B., A.M., M.D., *Assistant Professor of Pediatrics and Bacteriology, and Assistant Dean.*

A.B., San Jose State, 1928; A.M., Stanford, 1929; M.D., Duke, 1940; Int. in Ped., Duke Hosp., 1940-1941; Ass't Res. and Res. in Ped., Alfred I. duPont Instit., Nemours Found., Wilmington, Del., 1941-1943; Lt. Col., Med. Corps, U. S. Army, 1943-1946; *Assistant Pediatrician, Duke Hospital, 1945—.*

HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Associate Professor of Biochemistry and Toxicology.*

B.S., M.S., and Ph.D., North Carolina, 1920, 1921, and 1924; Instr. in Chem. and Pharmaceut. Chem., North Carolina, 1920-1925; Research Chemist, E. R. Squibb & Sons, and Fisk Rubber Co., 1925-1928; Instr. in Ophthalmol., and Chemist to Wilmer Institute, Johns Hopkins Hosp., 1928-1930; Visiting Fellow in Forensic Med., New York Univ., 1934; *Associate Biochemist and Toxicologist, Duke Hospital, 1930—.*

**ELISABETH STELLE YEARICK, B.S., M.S., *Therapeutic Dietitian.***

B.S. and M.S., University of Wisconsin, 1935; Intern in Dietetics, University of Michigan Hospital; Dietitian, State Welfare Home, Smyrna, Del.; Bridgeport Hospital, Bridgeport, Conn.; Mound Park Hospital, St. Petersburg, Fla.; *Therapeutic Dietitian, Duke University Hospital, 1946—.*

**WILHELMINA BELL, R.N., *Director and Coordinator of the Colored Practical Nurse School.***

Diploma. Royal Victoria Hospital, Montreal, Quebec, 1940; 1940-41, Staff Duty, Royal Victoria Hospital; 1941-45; R.C.A.M.C., Certificate in Nursing Education, University of Toronto, 1945-46; Instructor in Principles and Practice of Nursing, Wellesley Hospital, Toronto, 1946-47; Instructor of Nursing Assistants, Toronto, Canada, 1947-48; *Director and Coordinator of the Colored Practical Nurse School, Duke Hospital, Aug., 1948—.*

**HOSPITAL HEALTH SERVICE****NORMA W. MANN, R.N.***Health Service Nurse*

Diploma, St. Joseph's Hospital School of Nursing, Denver, Colorado, 1945; Operating Room, St. Joseph's Hospital, 1945-46; General duty, Poliomyelitis Nursing, Colorado General Hospital, Denver, Colorado, 1946-47; *Health Service Nurse, Duke University Hospital, 1948—.*

**JOSEPHINE ANDERSON BELL, R.N.***Student Health Service Nurse*

Diploma, Quincy City Hospital, Quincy, Mass., 1947; Pediatric Staff Nurse, Quincy City Hospital, 1947; Resident School Nurse, Instructor in Physiology and Hygiene, Prospect Hill School and Stoneleigh School, Greenfield, Mass., 1947-48; *Student Health Service Nurse, Duke University Hospital, 1948—.*

**RESIDENCES****HELEN W. ABBOTT, R.N.***Director of Nurses' Residences*

Diploma, Johns Hopkins School of Nursing, 1914; Private duty, Baltimore, Md., 1914-15; Operating Room and Pediatric Supervisor, Bellevue Allied Hospitals, 1915-16; Nursing Arts Instructor, Augusta University Hospital, 1917; Supervisor of Nurses' Quarters, Fort Meade, Md., 1918; Practical Nursing Instructor, Army School of Nursing, Fort Meade, Md., 1919; *Director of Nurses' Residences, Duke Hospital, 1930—.*

**ASSISTANT RESIDENCE DIRECTORS**

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MITTIE P. HOLIFIELD, Baker House.

RUTH WALTERS, 2204 Erwin Road.

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**NURSING STAFF OF DUKE HOSPITAL**

WILSON, FLORENCE K., A.B., R.N., M.A.

*Dean of the School of Nursing,  
Director of Nursing Service*

Faculty Apartments

DEWITT, MAREE, R.N., B.S., M.A.

*Assistant Director in Charge of Nursing Service*

Baker House

**SUPERVISORS**

ADAMS, RUTH M., University of Minnesota School of Nursing. *Assistant in Operating Room Technique.*



MARY LOU AMBERSON, R.N., *Assistant Night Supervisor.*

Diploma, Robert B. Green Memorial Hospital, San Antonio, Texas, 1945; Diploma, Chicago Lying-In Hospital, Chicago, Illinois, 1945; San Antonio Jr. College, San Antonio, Texas, 1942; Incarnate Word College, San Antonio, Texas, 1944-45; Obstetrical Supervisor and Instructor, Robert B. Green Memorial Hospital, San Antonio, Texas, 1945-46; Trinity University, San Antonio, Texas, 1945-46; Obstetrical Supervisor and Instructor, Brackenridge Hospital, Austin, Texas, 1946-47; The University of Texas, Austin, Texas, 1946-47; Night Supervisor, Robert B. Green Memorial Hospital, San Antonio, Texas, 1947; Director of Clinical Teaching, Hillcrest Memorial Hospital, Waco, Texas, 1947-48; *Assistant Night Supervisor, 1948—.*

BATCHELDER, MARION FRANCES. R.N., *Supervisor of the Operating Room.*

Diploma Peter Bent Brigham Hospital School of Nursing, Boston, Mass., 1920; Head Nurse, 1921-23; Supervisor of Operating Room, Peter Bent Brigham Hospital, 1923-27; Head Nurse, Operating Room, Johns Hopkins Hospital, 1927-1930; *Supervisor of the Operating Room, 1930—.*

CARTER, N. RUTH, B.S., The Johns Hopkins School of Nursing. *Clinical Instructor in Surgical Nursing and Supervisor of Surgical Nursing Service.*CRAWLEY, HATTIE MILDRED, B.S., Duke University School of Nursing. *Assistant in Pediatric Nursing and Assistant Supervisor of Pediatric Nursing Service.*DRATZ, DOROTHY DEATON, R.N., *Private Floor Supervisor.*

Flora Macdonald College, Red Springs, N. C., 1931-32; Diploma, Duke University School of Nursing, 1941; General Duty, 1941-42; Assistant Head Nurse on Surgical Ward, 1942; Assistant Head Nurse on Men's Medical Ward, 1942-43; Head Nurse in Delivery Room, 1943-44; Head Nurse on Private Medical Ward, 1944-45; *Private Floor Supervisor, 1945—.*

ELLIOTT, GERTRUDE. Mission Hospital School of Nursing. *Assistant in Obstetric and Gynecological Nursing and Assistant Supervisor of Obstetrical and Gynecological Nursing Service.*GODEFROY, HANNAH NORRIS, R.N., *Assistant Night Supervisor.*

East Carolina Teachers College, Greenville, N. C., 1943-44; Diploma, Duke University School of Nursing, 1947; General Staff, Duke University Hospital, 1948; *Assistant Night Supervisor, Duke University Hospital, 1949—.*

HARDING, OLIVE, R.N., *Assistant Supervisor of the Operating Room.*

Carson-Newman College, Jefferson City, Tenn., 1918-21; Diploma, Kings Mountain Memorial Hospital, Bristol, Va., 1929; Valparaiso University, Valparaiso, Ind., 1923; Night Supervisor, Marsh Hospital, Kingsport, Tenn., 1929; Post-graduate Course in Operating Room, Cook County Hospital, Chicago, Ill., 1930; General Duty, Duke Hospital, 1930-34; Head Nurse in Operating Room, 1934-42; *Assistant Supervisor of the Operating Room, 1942—.*

HEATH, MARJORIE, R.N., *Clinical Instructor in Medical Nursing and Supervisor of Medical Nursing Service.*HORTON, THERESA, B.S., Duke University School of Nursing. *Assistant in Obstetric and Gynecological Nursing and Supervisor of Obstetrical and Gynecological Nursing Service.*MOSS, ELSIE GERTRUDE, R.N., *Night Supervisor.*

Diploma, Philadelphia General Hospital, Philadelphia, Pa., 1935; Staff Nurse, Duke Hospital, 1935-41; Second Assistant to the Night Supervisor, 1941-42; First Assistant to the Night Supervisor, 1942-44; Private Floor Supervisor, 1944-45; First Assistant to the Dean, 1945-46; Director of the School of Nursing, Carolina General Hospital, Wilson, N. C., October, 1946-May, 1947; *Night Supervisor, Duke University Hospital, July, 1947—.*

PETREA, MARGARET, A.B., B.S., Duke University School of Nursing. *Assistant in Surgical Nursing and Assistant Supervisor of Surgical Nursing Service.*

QUARMBY, MARY F., A.R.C.M., Royal Victoria Hospital. *Supervisor and Clinical Instructor in Psychiatric Nursing.*

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FRANCES V. SHORTER, R.N., *Assistant Night Supervisor.*

Diploma, Chesapeake and Ohio School of Nursing, Clifton Forge, Va., 1940; Head Nurse, Chesapeake and Ohio Hospital, Huntington, W. Va., November, 1941-May, 1943; Army Nurse Corps, May, 1943-December, 1945; Post-graduate course in Operating Room Technique, Duke Hospital, August, 1946-January, 1947; Operating Room Supervisor, Riverside Hospital, Newport News, Va., March, 1947-August, 1947; General Duty, Duke Hospital, January, 1948-October, 1948; *Assistant Night Supervisor, October, 1948—.*

SOLOMONSON, LOIS MARIE, R.N., B.S., *Nursing Office Supervisor.*

Diploma, Miami Valley Hospital School of Nursing, Dayton, Ohio, 1943; Surgical Nurse, Miami Valley Hospital, Dayton, Ohio, 1943-44; College Nurse, Ohio Wesleyan University, Delaware, Ohio, 1944-45; Head Nurse, Ohio State University Hospital, Columbus, Ohio, 1945-46; B.S. in Education, Ohio State University, Columbus, Ohio, 1947; *Nursing Office Supervisor, Duke University Hospital, 1947—.*

STONE, EDITH JUNE, *Nursing Office Supervisor.*

Diploma, Duke University School of Nursing, 1942; *Nursing Office Supervisor, 1942—.*

SUITT, JULIA B., *Supervisor of Nursing Service in Dispensary.*

North Carolina College for Women, Greensboro, N. C., 1919-20; Diploma, Duke University School of Nursing, 1934; Assistant Head Nurse, Medical Ward, 1934-36; Head Nurse, Private Surgical Ward, 1936-43; *Supervisor of Nursing Service in Dispensary, 1943—.*

WILLIAMS, MARY C., Duke University School of Nursing. *Assistant in Medical Nursing and Assistant Supervisor of Medical Nursing Service.*

### HEAD NURSES

ALEXANDER, HENRY QUINCY, B.S., Duke University School of Nursing. *Head Nurse on Women's Medical Ward.*

BASON, BETTY, B.S., Duke University School of Nursing. *Head Nurse on Colored Medical and Surgical Ward.*

CAVINESS, EDITH ANN, B.S., Duke University School of Nursing. *Head Nurse on Private Surgical Ward.*

CLEGG, ELIZABETH, Duke University School of Nursing. *Head Nurse on Men's Surgical Ward.*

CRADDOCK, ALICE, B.S., Duke University School of Nursing. *Head Nurse in Delivery Room.*

CRUTCHER, EDITH COOKE, Duke University School of Nursing. *Head Nurse on Men's Surgical Ward.*

EMLET, RUTH SLOCUMB, A.B., B.S., Duke University School of Nursing. *Head Nurse in Operating Room.*

KAMIN, DOROTHY, Duke University School of Nursing. *Head Nurse on Psychiatric Ward.*

KING, ARDENA, Duke University School of Nursing. *Head Nurse on Colored Obstetrical and Gynecological Ward.*

LEONARD, MYRTLE, City Hospital School of Nursing. *Head Nurse on Women's Surgical Ward.*

- MANESS, MARGARET, Highsmith Hospital School of Nursing.  
*Head Nurse on Private Medical Ward.*
- MORGAN, EVELYN, B.S., Duke University School of Nursing.  
*Head Nurse on Pediatric Ward.*
- O'NEAL, MAUDIE, Rex Hospital School of Nursing.  
*Head Nurse in Operating Room.*
- PEGRAM, RUTH, B.S., Duke University School of Nursing.  
*Head Nurse on Obstetrical Ward.*
- POPE, TWILA Q., N. C. State Sanatorium School of Nursing.  
*Head Nurse on Obstetrical Ward.*
- SAWYER, FAY IRIS, Baptist Hospital School of Nursing.  
*Head Nurse on Men's Medical Ward.*
- SAWYER, MARY HARRIET, Duke University School of Nursing.  
*Head Nurse in Operating Room.*
- SMITH, ADELLA, Duke University School of Nursing.  
*Head Nurse on Private Medical Ward.*
- STROTHER, IRENE, B.S., Duke University School of Nursing.  
*Head Nurse in Nursery.*
- TAYLOR, NANCY, Charlotte Sanatorium School of Nursing.  
*Head Nurse on Private Surgical Ward.*
- TORRENCE, ELEANORA, Knoxville General Hospital School of Nursing.  
*Head Nurse on Surgical Pediatric Ward.*
- WILSON, MARY MOORE, B.S., Duke University School of Nursing.  
*Head Nurse on Women's Surgical and Gynecological Ward.*

#### ADMINISTRATIVE NURSES IN OUT-PATIENT DEPARTMENT

- ATKINS, LILLIAN, Mary Elizabeth Hospital School of Nursing.  
*Administrative Nurse in Dispensary (Dept. of Gynecology and Obstetrics).*
- BAKER, ALFREDA, Duke University School of Nursing.  
*Administrative Nurse in Dispensary (Bronchoscopic Clinic).*
- COBB, MARY BERNICE, B.S., Duke University School of Nursing.  
*Administrative Nurse in Dispensary (Urology Clinic).*
- McCOY, HAZEL, Duke University School of Nursing.  
*Administrative Nurse in Dispensary (Orthopedic Clinic).*
- MARKS, LOUISE, Johnston-Willis Hospital School of Nursing.  
*Administrative Nurse in Dispensary (White Medical Clinic).*
- NIBLOCK, JAMIE, Guilford General Hospital School of Nursing.  
*Administrative Nurse in Dispensary (Dept. of Obstetrics and Gynecology).*
- PERRY, SARAH, Statesville Training School for Nurses.  
*Administrative Nurse in Dispensary (Colored Medical Clinic).*
- REESE, EVA, Watts Hospital School of Nursing.  
*Administrative Nurse in Ophthalmology Division.*
- SCOTT, MARTHA P., Shelby Hospital School of Nursing.  
*Administrative Nurse in Dispensary (Surgical Clinic).*

STENTZ, ELIZABETH, Duke University School of Nursing.  
*Administrative Nurse in Dispensary (Pediatric Clinic).*

WARREN, SUE, Duke University School of Nursing.  
*Administrative Nurse in Dispensary (Psychiatric Clinic).*

## GRADUATE STAFF

ABLE, KATHRYN, B.S., Duke University School of Nursing.  
ALLEN, BARBARA JEAN, The Johns Hopkins School of Nursing.  
BARFIELD, MARIAN, Barrett School of Nursing.  
BARNES, PAULINE L., Northeastern Hospital.  
BERRY, JEAN, Duke University School of Nursing.  
BLAKE, DORIS, Dorothea Dix Hospital.  
BOCK, FLORIDE, State Hospital School of Nursing.  
BODKIN, BETTY, Duke University School of Nursing.  
BORING, BARBARA, B.S., Duke University School of Nursing.  
BOWMAN, IALEEN, Davis Hospital School of Nursing.  
BOYD, MARJORIE E., Baptist Memorial Hospital.  
BRABHAM, ANN MILDRED, Duke University School of Nursing.  
BRUTON, RUTH, Duke University School of Nursing.  
BRYANT, DOROTHY, Winchester Memorial Hospital.  
BURK, LILLIAN MAE, Suburban General Hospital.  
BURROW, BETTY, Duke University School of Nursing.  
BYERS, EDITH, Charlotte Memorial Hospital.  
CAIN, IVA O., Cumberland Memorial Hospital.  
CARLSON, ELEANOR, Methodist Hospital.  
CARSON, ANN C., University of Virginia School of Nursing.  
CAUSEY, EVA COLLEEN, King's Daughters Hospital.  
CHARLES-CRAFT, MARY, Grace Hospital.  
CHEEK, GRETCHEN, Duke University School of Nursing.  
CHEEK, MARY M., Jackson Memorial Hospital School of Nursing.  
COMPTON, ANNA B., Duke University School of Nursing.  
COOPER, ANNA JANE, Duke University School of Nursing.  
COX, FRANCES JEAN, Duke University School of Nursing.  
CREECH, DOROTHY S., Highsmith Hospital.  
DAVIS, PAULINE, Duke University School of Nursing.  
DAY, BETTY MAE, Medical College of the State of South Carolina.  
DELOACH, ELIZABETH, Duke University School of Nursing.  
DEYOUNG, MARY H., Duke University School of Nursing.  
DIEFFENBACH, ANNE, Medical College of the State of South Carolina.  
FALES, DORIS, N. C. Baptist Hospital.  
FRANK, EDNA, Metropolitan Hospital.  
FREEMAN, JIMMIE, Duke University School of Nursing.  
GAMBILL, FRANCES E., Davis Hospital.  
GERISH, RITA MARIE, Medical Center.  
GILES, FRANCES, Duke University School of Nursing.  
GODEFROY, HANNAH N., Duke University School of Nursing.  
GREER, DOROTHY, B.S., Duke University School of Nursing.



HABIG, ELIZABETH, St. Barnabas Hospital.  
HAESEKER, ELAINE, Mountainside Hospital.  
HAMILTON, FLORA W., Duke University School of Nursing.  
HAMPTON, MAYME Y., Grace Hospital School of Nursing.  
HEARD, MARY, St. Joseph's Infirmary.  
HEDRICK, BETTY, B.S., Duke University School of Nursing.  
HILTON, GRACE, Mt. Auburn Hospital School of Nursing.  
HOWSER, CELESTE, Duke University School of Nursing.  
JETT, ANNIE C., Methodist Hospital.  
JOHNSTON, CAROLYN C., Duke University School of Nursing.  
KALEEL, ADELE, St. Vincent de Paul Hospital.  
KAPP, MARGARET, Medical Center.  
KEHOE, CLARA, B.S., Duke University School of Nursing.  
KING, BETTY, Grady Memorial Hospital.  
LARRIVEE, JULIET, Cambridge City Hospital.  
LEFFELMAN, MARY GERARD, St. Joseph's Infirmary.  
LEFFELMAN, MARY LOUISE, St. Joseph's Infirmary.  
LOUGH, MARY, Garfield Memorial School of Nursing.  
LUTHER, DOROTHY, Duke University School of Nursing.  
McDOUGALL, SARAH, Medical College of South Carolina.  
McFARLAND, HAZEL, Rex Hospital School of Nursing.  
McILVENA, JEAN, General Hospital.  
MANLEY, CLARA, Duke University School of Nursing.  
MASON, LILLIAN, Watts Hospital School of Nursing.  
MATTERN, NANCY JANE, Presbyterian Hospital.  
MAULDIN, VIVIAN, Paris Sanitarium.  
MELTON, VELMA, S. C. Medical College.  
MELVIN, MARGARET, Nashville General Hospital.  
MICHAEL, ELINOR E., Medical College of Virginia.  
MINGOIA, JUSTINE, Bloomsburg Hospital.  
MORGAN, ANN, Duke University School of Nursing.  
MUNDIE, BETTY C., Duke University School of Nursing.  
NEWMAN, SALLIE, B.S., Duke University School of Nursing.  
ODENKIRCHEN, DORIS, St. Francis Xavier Infirmary.  
PARKER, DELLA, South Mississippi Charity Hospital.  
PATTERSON, JOHNSIE, Duke University School of Nursing.  
PERKINS, MARY ERNEST, Methodist Hospital.  
POWELL, NANNIE B., Watts Hospital School of Nursing.  
PRYOR, JULIA S., Duke University School of Nursing.  
PUTNAM, JEAN, The Johns Hopkins School of Nursing.  
RAINWATER, JULIA, B.S., Duke University School of Nursing.  
RAY, GRACE, Duke University School of Nursing.  
REARDEN, HELEN H., Duke University School of Nursing.  
RICHARDSON, GRACE J., University of Tenn. School of Nursing.  
ROACH, PATRICIA ANN, University of Tenn. School of Nursing.  
ROYER, LAURA NAN, Duke University School of Nursing.  
SANDSTROM, OMA, Emory University School of Nursing.



SHELTON, THELMA, Martin Memorial Hospital.  
SHOPE, BARBARA RAE, B.S., Duke University School of Nursing.  
SHORT, FRANCES H., Norfolk General Hospital.  
SHORTER, FRANCES V., Chesapeake and Ohio Hospital.  
SMALL, CAROLYN, B.S., Duke University School of Nursing.  
STEPHENSON, NANCY LEE, Duke University School of Nursing.  
STOW, MAUDE SMITH, Duke University School of Nursing.  
STRUNK, ANNE LOUISE, University of Connecticut.  
TRAVERS, MARGARET, St. Barnabas Hospital.  
WARD, LUCILE C., Methodist Hospital.  
WARE, NORREN E., General Hospital.  
WELLMAN, LORENE, Grace Hospital.  
WELSH, DEBORAH D., Duke University School of Nursing.  
WESTERVELT, ALYCE C., Emory School of Nursing.  
WHITAKER, MYRTLE, Brantwood Hospital.  
WHITE, CHARLOTTE J., John Gaston Hospital.  
WILKINSON, ELIZABETH, Riverside Hospital.  
WILLIAMS, LOUISE, B.S., Duke University School of Nursing.  
WILLIAMS, MARTHA, N. C. Baptist Hospital.  
WINSLOW, VIRGINIA, Germantown Dispensary Hospital.  
WOODMANSEE, THELMA, Methodist Hospital.  
ZARNICK, FLORENCE, Newark City Hospital.

## DUKE UNIVERSITY SCHOOL OF NURSING

### OPPORTUNITIES IN NURSING

Health services to the people of the United States are being expanded at a very rapid rate. Most of the states are at present engaged in studying the need for hospitals and making plans to meet these needs. Departments of Health are making surveys as to the adequacy of their programs and how these programs may be integrated with the programs of hospitals to meet the needs of the population for medical care. These expanding activities call for more personnel with professional preparation.

The professional nurse must recognize physical symptoms of illness which are commonly identified with organic changes. She must also recognize those heretofore less considered manifestations of illness such as anxieties, conflicts, and frustrations, which have a direct influence on organic changes and are now thought to be the result of an incompatible interaction between a person and his environment.

Nurses in their longer contacts with individuals have more opportunities to observe behavior and to listen to expression of thought under varying conditions than do physicians whose contacts are necessarily intermittent and brief. For this reason the nurse must be able to direct her actions and her verbal expressions on the basis of a sound understanding of human behavior and human relationships. She must be able to assess the health needs of the family and community as well as the individual.

The first preparation needed for meeting the requirements in the field of nursing is secured in a school of nursing. For well qualified candidates this school should be a collegiate school offering a program which will give a good basic understanding of the principle and practices of the art of nursing. After graduation from the school of nursing the student may wish preparation needed for the work of a head nurse, supervisor or other administrative position in a hospital or public health organization.

To give the applicant for admission to a school of nursing information as to the admission requirements, programs, fees and living arrangements for preparation in nursing, we offer this bulletin describing the following programs.

1. Programs for basic preparation in professional nursing at the Duke University School of Nursing leading to a diploma in nursing and admission with advanced standing to a degree program. (Page 25.)
2. Programs for preparing head nurses, supervisors and administrators for schools of nursing and nursing services in hospitals and other health organizations as planned in the Division of Nursing Education, Duke University, Durham, N. C. (Page 31.)
3. Programs for preparing nurses for public health nursing as planned by the School of Public Health, University of North Carolina, Chapel Hill, N. C. (Page 38.)

## **THE SCHOOL OF NURSING**

### **GENERAL INFORMATION**

The School of Nursing of Duke University was established in 1931 in association with the School of Medicine of the University and Duke Hospital through the gift of the late James B. Duke. The administrator of the School of Nursing is a member of the Executive Committee of the Medical School, Nursing School and Duke Hospital which promotes the common interests of the three organizations.

The central aim of the educational program is to select young women with aptitudes, interests and personal characteristics needed in nursing, and to provide an educational program enabling them to develop skills, knowledge and attitudes needed for professional nursing service in the community and for maximum personal development.

This program is designed to prepare nurses for:

1. General duty in hospitals.
2. Private duty in hospitals and homes.
3. First level positions under supervision in public health nursing agencies.

### **FACILITIES FOR INSTRUCTION**

The facilities for instruction include the facilities for instruction available in the undergraduate, professional and graduate schools and colleges of Duke University and the clinical facilities of Duke Hospital.

### **CLINICAL FACILITIES**

Duke Hospital has every modern convenience for the diagnosis, proper nursing care, welfare and comfort of the patients including 604 hospital beds, a large public out-patient department, a large private diagnostic clinic and offices and examining rooms for the doctors who serve on the staff of the hospital. There are very close relationships established between the hospital and the Health Departments in North Carolina. A system for referral of patients to the nursing service of the Health Departments has been established between the supervisors of the nursing service in the hospital and the nursing service of the Health Department.

The beds in Duke Hospital are assigned to the various services as follows: Medicine, including dermatology and neurology, has 75 ward beds; surgery, including urology, otolaryngology, ophthalmology, and orthopaedics, 148 ward beds; obstetrics, including gynecology, 56, and 50 bassinets; neuropsychiatry, 27; and pediatrics, 40. There are 222 private and semi-private rooms, 7 air-conditioned operating rooms, and 4 obstetric delivery rooms. Except for emergencies, all patients are admitted to the hospital from either the out-patient clinic or the private diagnostic clinic.

The hospital has been approved for internships and residencies by the Council on Medical Education and Hospitals of the American Medical Association.

The out-patient department has an average of 353 visits per day. All services including psychiatry carry on an active program in the out-patient departments. Students are assigned to the out-patient department for at least four weeks during their program in the School of Nursing. The first assignment is in the first year, to give the student some knowledge of the background of her patients; subsequent assignments are made concurrent with the experience on each service.

### LIBRARIES

The reference library of 2,298 books and periodicals of special interest to students majoring in nursing is located in Baker House. Students may use the general libraries on the East and West Campuses and the Duke Hospital Library. A collection of visual aids including films is being assembled with an index in the library for the use of students and instructors in the School of Nursing.

### APPLICATION FOR ADMISSION

Applications for admission to the School of Nursing should be made to the Committee on Admissions of the School of Nursing, Box 3714 Duke Hospital, Durham, N. C. Application Forms will be sent on request.

### ADMISSION

Since the profession of nursing requires women with high sense of integrity and responsibility, with culture and intelligence whose predominant interest is service, the Admissions Committee will select the applicants who, in its opinion, seem best qualified for nursing. The Admissions Committee must have on file the records indicating the fulfillment of the following requirements before considering an applicant.

1. Graduation from high school with sixteen units of credit as indicated.
2. One year of college with the semester hours of credit as indicated.
3. Aptitude and achievement tests.
4. Three recommendations.
5. Interviews.
6. Physical and dental examination

### SPECIFIC REQUIREMENTS

I. An applicant for admission to the School of Nursing must present at least sixteen acceptable units of secondary school credit. A unit of credit is allowed for a course of study pursued throughout an academic year at an accredited secondary school, if the course has been completed satisfactorily.

1. Twelve units must be in English, foreign language, history and social studies, mathematics, and natural science; and must include:
  - (a) English—3 units.
  - (b) Algebra—1 unit.
  - (c) Plane geometry—1 unit.
2. Four units may be in the subjects listed above or from those in the following table. The units indicate the maximum amount of credit acceptable in each subject:

<i>Subject</i>	<i>Units</i>	<i>Subject</i>	<i>Units</i>
Agriculture .....	2	Mechanical Drawing .....	2
Art .....	1	Music .....	1
Commercial Subjects .....	3	Physical Geography .....	1
Economics .....	1	Sociology .....	1
Household Economics .....	2	Woodworking, Machine Work ....	2

Other units offered in subjects not included in this list will be considered for acceptance on the basis of full statements transmitted with the applicant's record from the school recommending her.

If students make satisfactory scores on a scholastic aptitude test, the above requirements will not be rigidly adhered to by the School of Nursing.

II. One year of college work is required for admission to the Duke University School of Nursing. This work may be taken at any accredited college or university and should include the following courses:

	<i>S.H.</i>
English .....	6
Chemistry .....	8
Zoology or Biology .....	4
History, Economics or Political Science .....	6
Electives (Foreign Language, Literature, Mathematics, Religion, History, Appreciation of Art or Music and Physical Education) .....	8

Students who wish to complete requirements for the degree of Bachelor of Arts after graduation from the School of Nursing should take 6 credits of foreign language during the Freshman year. Those who submit two or more units of one language in high school are advised to continue with that language in college.

III. Satisfactory scores on a battery of aptitude and achievement tests.

IV. Three recommendations, two of which must come from recent high school or college instructors.

V. Interviews with two members of the Duke University School of Nursing faculty, whenever possible.

VI. Records of recent physical and dental examination.

A physical examination at Duke Hospital is required for final acceptance into the School of Nursing. This examination includes a chest x-ray and a tuberculin test.

Students who attend college more than one year before entering the School of Nursing are advised to take the following courses:

	<i>S.H.</i>
Literature .....	6
Psychology .....	3-6
Sociology .....	3-6
Religion, Ethics or Philosophy .....	6
Language (second year of same language taken in first year) .....	6
Electives (Physical Education) .....	2-8



**FEES AND EXPENSES**

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>
Tuition .....	\$100.00	\$100.00	\$100.00
Books (Estimated) .....	40.00	10.00	10.00
Pre-entrance tests .....	5.00		
Publications (Estimated) .....	15.00	15.00	15.00
Graduation .....			3.00
Diploma .....			5.00
Degree .....			5.00
Cap and Gown Rental .....			1.25
Room Key Deposit .....	1.00		
Uniforms .....	84.20		
	<hr/> \$245.20	<hr/> \$125.00	<hr/> \$139.25

The fee for pre-entrance tests and health examination is payable at time testing is done. Checks should be made payable to Duke University.

No student is permitted to attend classes until she has complied with all regulations concerning registration and payment of bills for the term.

Arrangements for purchase of uniforms are made with the uniform company late in September. The total cost of the uniforms is paid at that time.

Duke Hospital provides board, room and laundry for students in the School of Nursing. The rooms in the residence are fully equipped. Twenty-five dollars of the tuition fee is payable upon receipt of the acceptance letter, the balance is due upon admission.

Fees for courses which require registration in the Woman's College are charged upon the basis of hours of credit.

**LOAN FUND AND SCHOLARSHIP**

Through the generosity of the Kellogg Foundation, loan funds sufficient to cover tuition costs are available to students who demonstrate a real need and who are qualified. There are also a limited number of tuition scholarships for exceptionally qualified students.

Residents of North Carolina and others upon recommendation may secure loans from the Medical Care Commission of North Carolina. The conditions under which these loans are granted will be supplied upon inquiry addressed to the Dean of the School of Nursing.

A loan fund sufficient to cover tuition costs has been established for worthy applicants by the Alumnae Association of the School of Nursing. Inquiries may be addressed to the Dean of the School of Nursing.

**RESIDENCES**

Students are housed in the fireproof residences located near the hospital. Rooms are adequately equipped with blankets and linen, making further provision by the student unnecessary. Life in the dormitories is under the regulations established by the Student Government Association with advice from the faculty.

**HEALTH REGULATIONS AND PHYSICAL EDUCATION**

The School has general supervision of the student's health. All physical defects, such as defective vision, dental needs, etc., must be corrected

before admission to the School. The student must have been immunized against typhoid fever and vaccinated against smallpox during the current year. All students are required to pass a physical examination before admission to the School of Nursing and at intervals thereafter, a final examination being given at the end of the course. Students whose condition needs further observation may be admitted tentatively, but must cancel their application if later findings prove them physically unfit for nursing. Students about whom it is decided that tonsillectomy or other surgery was indicated before admission to the School, or students under care of a private physician for some minor complaint which does not interfere with the practice of nursing but requires hospitalization and surgery, may be asked to pay for this care by the Hospital.

Students are allowed two weeks' sick leave during the three-year course.

### ACTIVITIES OFFERED

Swimming, horseback riding, basketball and softball are offered as student activities, in addition to social activities. First-year students are required to elect either swimming or horseback riding.

### READMISSION

Students who are absent for more than one month on account of illness or have leave of absence may be readmitted to the same or a succeeding class at the discretion of the faculty.

### LEAVE OF ABSENCE

Students are not expected to leave the School because of family or other personal reasons. Absence from the School is granted only in extreme cases. If a student is obliged to be away for a period exceeding four weeks, the Dean of the School of Nursing will determine the date of her return and the question of resuming her place in her original class.

### DISMISSAL

The faculty of the School of Nursing may, at any time, place a student on probation or release her from the School if, in its opinion, she does not have the qualifications necessary for the profession.

### THE DUKE UNIVERSITY SCHOOL OF NURSING ALUMNAE ASSOCIATION

The Duke University School of Nursing Alumnae Association was formed for the purpose of rendering mutual help and improvement in professional work, and for the promotion of good fellowship among the graduates of the School.

The Alumnae Association co-operates with the North Carolina State Nurses' Association and the American Nurses' Association in working for the professional and educational advancement of nursing.

*Alumnae Notes*, a quarterly news publication, furnishes items of interest to the members of the Association.

**SANTA FILOMENA**

Santa Filomena, Senior Honorary of the Duke University School of Nursing, was organized in April, 1944, under the sponsorship of the 1943 class. The purpose of this organization is to recognize achievement and promote leadership.

The members are chosen from the rising Senior Class and are publicly tapped by the old members at the first meeting of the SGA in their Senior year, the number chosen not exceeding nine or being less than five. Each candidate must show recognized qualities of leadership or must have made some contribution toward the betterment of the School of Nursing. She must have demonstrated superior nursing abilities and her scholastic record must be eighty or above throughout her **first two years.**

Santa Filomena strives for better interclass relations, and to promote better nursing and higher nursing standards. The specific objectives are chosen by the members each year. All proceedings of the meetings of this organization are held in secrecy as are all ceremonies except the public tapping of the new members. The Santa Filomena's flower is the white lily and the members wear a small gold Florence Nightingale lamp.

## AWARDS TO NURSES

### BAGBY AWARD IN PEDIATRICS

The Bagby Award in Pediatrics (a subscription to the *American Journal of Nursing*) is given at graduation to the best Duke student nurse in Pediatrics.

### THE FLORENCE NIGHTINGALE PLAQUE

The Florence Nightingale plaque is awarded to a graduating student by the Alumnae Association for leadership, scholarship and nursing skill.

### THE MOSELEY AWARD

The Moseley Award of \$25.00 is given to the student in the senior class who has shown the most skill in Nursing Arts throughout her program in the School of Nursing.

### PROGRAM OF THE SCHOOL OF NURSING

The program of the School of Nursing covers a period of three calendar years with one month of vacation each year. At the completion of this program, the student receives the diploma in nursing and is then eligible for the examinations given by the North Carolina State Board of Nurse Examiners. The School is fully approved by the North Carolina Joint Committee on Standardization.

### COMBINED ACADEMIC-PROFESSIONAL PROGRAMS IN NURSING

Students who have been graduated from the Duke University School of Nursing with an average grade of "C" or better may, upon recommendation by the Dean of the School of Nursing, apply for admission to the Woman's College of Duke University. If accepted she may obtain the degree of Bachelor of Arts or Bachelor of Science from Duke University by fulfilling the requirements for the degree of choice. Forty semester hours of credit toward these degrees are given for the three-year nursing program or toward the degree of Bachelor of Science in Nursing Education for those showing ability in teaching. See page 31.

The program of studies leading to the degree of Bachelor of Arts is as follows:

1. Minimum requirement of the Undergraduate College of Arts and Science:

	S.H.
English 1-2 .....	6
Natural Science .....	8
Language (completion of the third college year) .....	6-18
Religion .....	6
History, Economics or Political Science .....	6

2. Basic nursing program ..... 40
3. At least twelve semester hours in one department other than nursing in courses not primarily open to Freshmen 12
4. Electives ..... 24-36

In addition to twelve semester hours in one department, the program must include 24 semester hours in courses numbered 100 or above.

A total of 124 semester hours credit and 124 quality points is required for graduation.

### **THE PROGRAM OF STUDIES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE**

Students who have been graduated from the Duke University School of Nursing may obtain the degree of Bachelor of Science by fulfilling all requirements for that degree. Forty semester hours of credit toward this degree are given for the three-year program in the School of Nursing. The requirements for this degree may be found in the bulletin of the undergraduate colleges.

### **ADMISSION WITH ADVANCED STANDING IN WOMAN'S COLLEGE**

Students from the School of Nursing enter Woman's College with advanced standing. They may receive credit for college courses taken previous to admission to the School of Nursing if the work meets the following requirements.

A student enrolling for the Bachelor's degree who transfers from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, is under all circumstances required to continue, for at least one semester in the Woman's College, the foreign language she presents for minimum graduation requirements. Note:—No language requirement is made for the degree of B.S. in Nursing Education.

A student who has transferred from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit. The maximum amount of credit acceptable from a junior college is sixty semester-hours.

Transfer credits are tentatively evaluated pending the completion of two semesters' work in residence. To validate provisional credits the student must earn at least an average of "C" in a normal load of work. Transfer grades of "C" or above are rated at one quality point per credit hour when validated.

No credit is given for work completed by correspondence, and not more than six semester hours credit is allowed for extension courses. Any extension work accepted must be specifically approved by the Dean of the College.



## THE CURRICULUM—BASIC PROGRAM

Title of Course	Clock Hours	Related Clinical Experience	
<i>1st year - 1st semester</i>			
Anatomy and Physiology.....	64	Ward practice in nursing procedures at Christmas	
Physiological chemistry.....	64		
Nutrition and Cookery.....	64		
Social Psychology.....	64		
Introduction to Nursing.....	96		
2 weeks vacation			
<i>1st year - 2nd semester</i>			
Anatomy and Physiology.....	64	Ward practice in medical and surgical nursing	
Microbiology.....	64		
Foundations of Nursing I.....	192		
Nursing seminar.....	16		
<i>1st year - summer session</i>			
Foundations of Nursing II.....	32	14 weeks medical and surgical nursing 2 weeks vacation	
<i>2nd year - 1st semester</i>			
		9 weeks operating room 6 weeks diet kitchen 4 weeks vacation	
Foundations of Nursing III.....	48	16 weeks obstetrics and gynecology 13 weeks pediatrics 4 weeks medical and surgical nursing	
Communicable Diseases and Public Health.....	48		
Nursing seminar.....	16		
<i>*A. 2nd year - 2nd semester</i>			
Obstetrical nursing.....	55		
Pediatric nursing.....	32		
Nursing seminar.....	16		
<i>B. 3rd year - 1st semester</i>			
Professional Adjustments II	48	16 weeks on campus 2 weeks vacation	Elective classes may be taken in Woman's College, Duke University during this period with approval of the faculties of Woman's College and the School of Nursing
Psychiatric nursing.....	48		
<i>C. 3rd year - 2nd semester</i>			
Nursing seminar.....	32	2 weeks vacation 32 weeks medical and surgical nursing	

\*At the beginning of the second semester of second year, the class is divided into 2 sections. Section 1 proceeds as above (A,B,C). Section 2 proceeds as follows C,A,B.

## COURSES OF INSTRUCTION

**Anatomy and Physiology.**—Through the learning experiences in the course the student gains an understanding and appreciation of the way body structure and body functions serve to maintain and promote health. These understandings and appreciations should enable the student to practice and teach good hygiene more effectively and to comprehend anatomical and physiological pathology more intelligently.

DR. MARKEE, DR. SAWYER, MISS SMITH

**Physiological Chemistry.**—This course is designed to aid the student in understanding the relationships between chemistry and health and between chemistry and pathology. The student also acquires knowledge concerning the chemical basis of medical diagnosis and therapy and of nursing therapy.

DR. TAYLOR, MISS SMITH

**Microbiology.**—From the learning experience included in this course the student begins to understand and appreciate her role in the prevention of microbial disease in the community and in the hospital.

DR. CONANT, MISS SMITH

**Communicable Diseases and Public Health.**—This course continues the discussions in microbiology and is designed to help the student gain an understanding of the pathology, symptomatology and possible complications and sequelae of the common communicable diseases and of intelligent, adequate nursing care to patients with these conditions. The student will become acquainted further with methods of disease prevention, the responsibility of the nurse in community health education and the resources commonly used in a preventive program.

DR. HARRIS, DR. MARTIN, MISS SMITH

**Nutrition and Cookery.**—This course has been planned that the student may gain specific information relative to normal nutrition. The methods of supplying foods which conform to nutritional needs of both the patient and the nurse are given for varying income levels. The actual care and preparation of foods and the planning of a daily food intake according to nutritional standards is the content of the laboratory periods. 32 hours of nutrition lecture. 32 hours of laboratory.

MISS YEARICK, MISS TOLAND

**Diet Therapy.**—The content has been divided so that information and diets relative to the treatment of various diseases are discussed immediately following the lectures of the medical and nursing groups. Throughout the junior year a follow-up of the formal lectures is planned during six weeks in the Dietetics Department where the nurse plans and serves both weighed and modified diets. 15 hours of lecture. 6 weeks in Dietetics Department.

MRS. MARTIN, MISS YEARICK

**Social Psychology.**—Through a study of the role of social and cultural patterns in their interaction with the individual personality and through an understanding of behavior development and personality adjustment, it is hoped that the student may advance toward maximum personal, social and professional maturity. By exploration of social patterns she should learn something of the structure of contemporary society. Finally, by a study of the techniques used in understanding and getting along with others, the student may become better able to use these techniques in her own contacts with people.

MISS JEFFERS; SPECIAL LECTURERS

**Introduction to Nursing.**—Through experiences in this course the student begins to:

1. Develop manual dexterity and skill in the performance of nursing procedures.

2. Develop skill in observing and interpreting mental, emotional and physical symptoms of patients.
3. Develop better understanding of the individual needs of patients and how these needs may be met through intelligence and efficient utilization of community resources.
4. Develop an understanding and an appreciation of the responsibilities relative to the total care of a patient in addition to those responsibilities relative to his immediate physical care.
5. Develop ability to maintain high standards of nursing care through safe modification of established procedures to meet the demands of any given situation.
6. Develop a knowledge of an appreciation for the preventive as well as the curative aspects of nursing through personal application.
7. Develop the ability to teach sound principle of mental and physical health.
8. Gain a knowledge and understanding of an appreciation for the role of the professional nurse in the community.

This course includes Hygiene, Elementary Pharmacology, History of Nursing, Professional Adjustments I and Introduction to Public Health.

MISS HUNTER AND ASSISTANTS

**Nursing Seminar.**—This course begins the second semester of the first year and runs through the remainder of the curriculum. It is designed to help the student relate what she has learned and is learning in the classroom to her actual care of patients in the wards. In this course, the student will discuss problems in total nursing care in relation to her own patients and will learn the many resources which can be utilized to help the patient solve these problems.

MISS SMITH, MISS HUNTER, MISS MILLER,  
MISS SLAYBAUGH, MISS GALLOWAY, MRS. OAKES

#### **Foundations of Nursing I, II and III.**

A. In these courses the following subjects will be taught:

1. Anatomy and Physiology (review)
2. Chemistry (review)
3. Pathology and Disease conditions
4. Nursing procedures and nursing care
5. Pharmacology
6. Diet therapy
7. Social, economic and psychological aspects of the prevention and cure of disease and rehabilitation of patient in relation to:
 

(1) Circulatory system	}	Foundation I
(2) Urinary system		
(3) Digestive system		
(4) Nervous system		
(5) Respiratory system	}	Foundations II
(6) Endocrine system		
(7) Skeletal and muscular systems	}	Foundations III
(8) Special senses		

B. The outline followed in all these foundation courses is essentially as follows:

#### **Unit I**

- a. What roles does this system play in the maintenance of health?
- b. Under what conditions does this system function best?

#### **Unit II**

- a. What are the pathological changes in regards to this system?
- b. What do these changes do to the functioning of the system and to the individual as a whole?

*Unit III*

- a. What are the possible causes of such pathological changes?

*Unit IV*

- a. Once pathology occurs, how may it be limited so that functioning is improved?

*Unit V*

- a. What can be done to help patients in the rehabilitation process?

MISS MILLER, MISS HEATH, MISS WILLIAMS, MISS PETREA,  
MISS SMITH, MISS MCCrackEN, MISS YEARICK, MISS  
HUNTER AND ASSISTANTS; SPECIAL LECTURERS

**Obstetrical Nursing Including Gynecological Nursing.**—Through the learning experience in the course the student gains understanding of the normal structure and functioning of the reproductive system in relation to pregnancy and to gynecological conditions is discussed with the emphasis on methods of preventing such pathology.

DR. CARTER, MISS HORTON, MISS ELLIOTT

**Pediatric Nursing.**—The emphasis in this course is not on children's diseases but on the effect of the illness on the development of the child. In this course, the student will acquire a fundamental understanding of the growth and development of the child and an awareness of the child as an individual and as a member of the family and of the community. In presenting the subject of the growth and development of the child, emphasis is placed upon the measures by which growth and development may be promoted. In this way the student gains the basic knowledge of the principles of parent education. Since many of the disease conditions of children have already been covered in the preceding courses, this course is not too concerned with the clinical aspects of pediatrics. Most of the clinical aspects as well as the modifications of nursing procedures to the child will take place (as ward teaching) during the students' pediatric ward experience.

MISS CRAWLEY, MISS SHERWOOD; SPECIAL LECTURERS

**Psychiatric Nursing.**—Throughout the curriculum, there is emphasis on the interdependence of physical, intellectual and emotional factors, in the maintenance of health and the prevention of disease. There is also an emphasis on positive mental health programs in every clinical course. Emphasis is placed on the principles and methods employed in the psychiatric aspects of nursing. Consideration is given to the social problems associated with mental illness and the community facilities for dealing with these problems.

DR. GOLDSMITH, MISS QUARMBY; SPECIAL LECTURERS

**Professional Adjustments.**—This course is designed to help the student consider the opportunities open to her, her special aptitudes and abilities, her responsibilities, the fields of work for which she presents potentially the best qualifications and how to get started in a professional career. She is helped to see the place of nursing in our social and economic world. Emphasis is placed on the need for cooperation between all professions if satisfactory conditions for the maintenance of health and the prevention of disease are to be realized.

MISS WILSON



## DIVISION OF NURSING EDUCATION

### ADVANCED PROFESSIONAL PROGRAMS

A Division of Nursing Education was established in December, 1944, as an integral part of the Department of Education of Duke University. At the present time, qualified graduate nurses may work toward the degree of Bachelor of Science in Nursing Education, or toward the degree of Master of Education with a major in Nursing Education.

The primary objective of the degree programs for graduate nurses is to prepare qualified individuals for administrative, teaching, and supervisory positions in schools of nursing and in nursing service agencies. Facilities for instruction include the undergraduate colleges of Duke University, the Graduate School, the School of Nursing, the Medical School and Duke Hospital.

### I. DEGREE OF BACHELOR OF SCIENCE IN NURSING EDUCATION

#### Admission

A student who wishes to work toward the degree of Bachelor of Science in Nursing Education must apply for admission to the Woman's College of Duke University. To be eligible for admission as a candidate for this degree she must meet the following requirements:

1. Graduation from an approved secondary school with at least fifteen acceptable units of credit. Twelve units must be in English, foreign language, history and social studies, mathematics and natural science, and must include:
  - (a) English—3 units.
  - (b) Algebra—1 unit.
  - (c) Plane Geometry—1 unit.

Three units may be in subjects listed above or in such subjects as art, commercial subjects, household economics, or music.

Students who have satisfactorily completed one or more years of college work in an approved college or university must also fulfill the requirements listed above with respect to high school credit, must present official transcripts of all work done in other institutions, and must have honorable dismissal from each institution previously attended.

2. Graduation from an approved school of nursing which provides satisfactory preparation in medical, surgical, pediatric, and obstetric nursing, as a minimum.
3. Satisfactory scores on specified tests.
4. Satisfactory ratings from three individuals, preferably former teachers and supervisors with whom the individual has had fairly recent contact.

Credit for 120 semester hours (exclusive of physical education) on which an average grade of at least "C" is made is required for the degree



of Bachelor of Science in Nursing Education. The work of the final year must be taken in residence at Duke University. The program of studies leading to this degree must include:

### Outline of Program

1. Minimum general education requirements (may be satisfied at Duke University or at any accredited college or university).

	S.H.
English 1-2 .....	6
Natural Science .....	8
History, Economics or Political Science .....	6
Sociology .....	3-6
Psychology .....	3-6
Electives .....	12-18
(Literature, Art, Music, Religion, Ethics, Language)	38-50

2. BASIC NURSING PROGRAM .....40 (maximum)  
May be taken at the Duke University School of Nursing or at any approved school of nursing.

The amount of credit which is granted for the nursing school program is determined on an individual basis.

3. COURSES IN EDUCATION AND NURSING EDUCATION

88.	Psychological Foundations of Modern Education	3
110.	Introduction to Measurement and Research in Education .....	3
84N.	Social Foundations of Nursing Education .....	3
101N.	The Curriculum of the School of Nursing .....	3
115N. }	Nursing Education—Principles and Practices ...	6
116N. }		
117.	Community Nursing—Seminar and Field Trips to Community Agencies .....	2
		20

4. Field of Concentration—16

Sixteen semester hours in one field such as chemistry, zoology, physics, psychology or sociology, or in a clinical area and related subjects is required. No freshman work may be included in these sixteen semester hours. Nurses who are interested in head nurse work or supervision in a clinical area are advised to take the following courses:

	S.H.
193. Ward Administration and Teaching .....	3
195. Personnel Work in Schools of Nursing .....	3
120. Problem in Nursing Care .....	2

5. PROFESSIONAL EXPERIENCE

One year of experience as a graduate nurse is required before the degree is granted.

## II. DEGREE OF MASTER OF EDUCATION WITH A MAJOR IN NURSING EDUCATION

### Admission

A student who wishes to work toward the degree of Master of Education with a major in Nursing Education must apply for admission to the Graduate School of Duke University. To be eligible for admission as a candidate for this degree she must meet the following requirements:

- (1) Graduation from an approved college or university with an average grade of not less than "B."
- (2) Satisfactory standing on the Graduate Record Examination.
- (3) Satisfactory standing on a test of mental ability.
- (4) Ability to write acceptable English as demonstrated on a test.
- (5) Graduation from an approved school of nursing.
- (6) Satisfactory ratings from three individuals, preferably former teachers and supervisors with whom the individual has had fairly recent contact.

### Outline of Program

Basic Required Courses in Education:	S.H.
300. Methods of Educational Research .....	3
304. The School as an Institution .....	3
305. The Nature, Function, and Reorganization of the Curriculum .....	3
317. The Psychological Principles of Education .....	3
	<hr/>
	12
Courses in Nursing Education:	
310. Organization and Administration of Schools of Nursing .....	4
311. Problems in Personnel Administration in Nursing ..	4
312. Research Problem .....	4
	<hr/>
	12
Minor, intra-departmental or extra-departmental .....	6
	<hr/>
	30

Candidates for the Master of Education degree must have had two years of experience including administration, supervision, or teaching in a school of nursing or nursing service organization when the degree is granted.

### Tuition, Fees, and other Expenses:

#### Fees Per Semester

Matriculation Fee (paid one time) .....	\$ 20.00
Tuition .....	175.00
General Fee (Undergraduate) including health, library and incidental fees) .....	75.00

General Fee (Graduate School) .....	60.00
Laboratory Fee (amount depends upon course which is taken)	

### Living Arrangements

Students may make their own arrangements to live in private homes. A limited number of students can be housed in the Graduate Nurses' Residence, 2204 Erwin Road. The cost of living in this residence is as follows:

Single room (per semester) .....	\$87.50
Double room (per semester) .....	67.50

Meals can be secured at a nominal rate at University cafeterias.

### Employment

A limited number of nurses may be employed at Duke Hospital during the time they are taking courses at Duke University. Nurses who are working full-time (44 hours per week) may take one course each semester. Nurses who wish to reduce hours of work per week to 36, with a corresponding reduction in salary, may take two courses each semester.

For information about employment write to the Director of Nursing Service, Duke Hospital.

## III. CLINICAL PROGRAM IN OPERATING ROOM NURSING

A program in operating room nursing of nine months in length is offered to qualified graduate nurses who are interested in preparing for head nurse positions in an operating room.

### Admission

An individual who is interested in the program in operating room nursing must apply for admission to the Woman's College of Duke University as a *special* student. To be admitted as a special student the following records are required:

1. Transcript of high school or of college record.
2. Transcript of nursing school record.
3. Satisfactory rating from a nursing service administrator or supervisor with whom the applicant has had recent contact.

In addition to the above requirements an applicant must have had a minimum of six months' experience as an operating room nurse.

### Outline of Program

\*Courses in Nursing Education and Related Subjects

	<i>Credits</i>
84N. Social Foundations of Nursing Education .....	3
120. Problem in Nursing Care .....	2
193. Ward Administration and Teaching .....	3
195. Personnel Work in Schools of Nursing .....	3
Elective.....	3
	—
	14

\* Credit toward the degree of B.S. in Nursing Education is given for these courses.

### **Classes and Related Experience in Operating Room Nursing**

The course in operating room nursing includes 60 hours of organized class work during the period of nine months and an average of 36 hours each week on duty, of which 18 hours is supervised experience. The class work includes a discussion of the facts and principles of chemistry, bacteriology, anatomy and physiology underlying preparation for and assistance with surgical operations, both general and special. The history of anesthesia is presented, as well as present day trends and developments in the field.

In the related field work the nurse becomes acquainted with the functions of various departments of the hospital and their relationship to the operating room. She has an opportunity to prepare for and assist with various surgical operations including general surgery, chest surgery, neuro-surgery, orthopaedic surgery, urological surgery, plastic surgery and eye, ear, nose and throat surgery. She is also given an opportunity to assist with administrative and supervisory functions in the operating room, and with planning and conducting a teaching program for students and others.

### **Fees**

Each student pays the regular University fees for courses in Nursing Education and related subjects. The fee per credit hour is \$12.00 (1948-49). In addition a matriculation fee of \$5.00 is paid each semester.

### **Living Arrangements**

Students who are taking the course in operating room nursing receive full maintenance in return for service to the hospital.

### **Health Care**

Each student is required to carry hospitalization insurance to cover the cost of hospitalization during illness.

A sick leave of seven days is given during the nine months' period.

### **Dates of Admission**

Students are admitted to the program in operating room nursing at the beginning of each semester.

### **Certificate**

At the completion of the nine months' program in operating room nursing the student is granted a certificate.

### **Information**

For further information about any program write to Director of the Division of Nursing Education, College Station, Box 6568, Durham, North Carolina. Application for admission to the Woman's College should be made to the Committee on Admissions, College Station, Durham, North Carolina. An applicant for admission to the Graduate School should have an official transcript of undergraduate record sent directly to the



Dean of the Graduate School. An application blank for admission will be provided upon request to the Dean of the Graduate School.

### DESCRIPTION OF COURSES

**84N. Social Foundations of Nursing Education.**—A survey of the major social and economic trends which have influenced developments in nursing in the past, and which determine its present and future progress. The purpose of the course is to give the nurse a better understanding of the place of nursing in present day society, and the responsibility of the individual nurse toward that society. 3 semester hours. MISS NAHM

**101N. The Curriculum of the School of Nursing.**—A discussion of the philosophical, psychological, and sociological principles which influence the nursing school curriculum, and the problems which are involved in determining the content and organization of that curriculum. 3 semester hours. MISS NAHM

**115-116N. Nursing Education, Principles and Practice.**—A course which is designed to help prospective teachers in schools of nursing to understand students and how they learn, to plan a program of instruction which will make effective learning possible, and to evaluate the outcomes of instruction. Sixty hours of observation of teaching and thirty hours of supervised teaching in the Duke University School of Nursing are required. 6 semester hours. MISS NAHM

**117. Community Nursing.**—The purpose of this course is to help prospective teachers, supervisors, and head nurses to see how they can utilize outpatient departments, community agencies, and other facilities in integrating social and health aspects into the various areas of the nursing school curriculum. 2 semester hours. MISS GARDINER

**120. Problem in Nursing Care.**—Each student works on an individual nursing problem which is designed either to improve the nursing care of patients, or the teaching program of the school of nursing. 2 semester hours. MISS NAHM

**124. Teaching of Nursing Arts.**—In this course an effort is made to help teachers in schools of nursing to integrate the facts and principles of the social, biological, and medical sciences with the teaching of nursing arts. Though major emphasis is placed upon the problems which are involved in planning and teaching the first course in nursing arts, the concept of the nursing arts as an integral part of each clinical area is stressed. 3 semester hours. MISS HUNTER

**193. Ward Administration and Teaching.**—This course is designed to help head nurses better to understand their functions in planning and managing a program on a hospital division which will result in improved care of patients, greater satisfaction for professional and non-professional personnel, and a more adequate teaching program for students and others. 3 semester hours. MISS NAHM

**195. Personnel Work in Schools of Nursing.**—The primary purpose of this course is to help head nurses and supervisors to develop greater understanding of the principles of human behavior, and greater ability to apply those principles in working with patients and others on hospital divisions, and in establishing cooperative relationships with other departments of the hospital. 3 semester hours. MISS NAHM

**310. Nursing Education: Organization and Administration of Schools of Nursing.**—A course which includes a discussion of the principles underlying the organization and administration of a school of nursing. The administrative



control and support are discussed, and also the preparation of the budget, faculty organization, administration of the curriculum, the provision of instructional facilities, records and reports, and the public relations program. Problems which are involved in organizing and administering a hospital nursing service are also presented, and relationships between the nursing service and the school of nursing are discussed. 4 semester hours. MISS WILSON, MISS NAHM

**311. Nursing Education: Problems of Personnel Administration in Nursing.**—A course which deals with problems which are involved in the organization and administration of personnel services for a school of nursing and a hospital nursing service. It includes a discussion of the selection program, the orientation program, personnel records, provisions which are made for the welfare of students and others, the counseling program, the placement program, and general plans for research and follow-up of graduates of a school. 4 semester hours. MISS NAHM

**312. Nursing Education: Research Problems.**—Each student works on a problem in the field of her major interest. The purpose of such projects is to help students to develop some understanding of research principles and methods. 4 semester hours.

MISS NAHM AND OTHER FACULTY MEMBERS OF THE DEPARTMENT  
OF EDUCATION AND OF THE SCHOOL OF NURSING

## **PUBLIC HEALTH NURSING**

SCHOOL OF PUBLIC HEALTH  
UNIVERSITY OF NORTH CAROLINA  
CHAPEL HILL, N. C.

### **PUBLIC HEALTH NURSING**

The program of study in Public Health Nursing is designed to prepare registered professional nurses to carry on the functions of public health nursing in local health departments, visiting nurse associations, or joint health agencies.

Curricula leading to a certificate or baccalaureate degree in Public Health Nursing are offered.

#### **Requirements for Admission**

##### *General:*

1. Ability to meet the regular entrance requirements of the University.
2. Graduation from an approved school of nursing offering a satisfactory theoretical and clinical experience.
3. Acquisition of the status of a registered nurse in any state.

##### *Specific:*

1. Candidates for the Certificate in Public Health Nursing:  
(a) General requirements above.
2. Candidates for the degree of Bachelor of Science in Public Health Nursing:  
(a) General requirements.  
(b) Two years of prescribed academic work in an accredited university or college.  
(c) Approval of the Committee on Admissions to the curriculum for the Bachelor of Science in Public Health Nursing.
3. Candidates for the Master of Public Health degree:  
Graduation from an approved school of nursing and graduation with a bachelor's degree from an accredited college or university. The undergraduate program must have included at least eight courses in the natural sciences, and it is desirable that the student shall have had work in social science and education.

#### **Plan of Instruction**

The calendar year's curriculum in Public Health Nursing is required of all majors in this field. While there is a prescribed curriculum of study, a program will be arranged on an individual basis with consideration for the educational and experiential background of the student. The program is so arranged that students are admitted in the Fall Quarter and are expected to remain for at least three consecutive quarters. With the approval of the Department, Public Health Nurses with experience may be admitted in the summer provided they plan to remain for a minimum

of three consecutive quarters. Field work is an essential part of the program and is required for either the degree or the certificate. Exceptions may be made where a quarter of supervised field experience has been previously taken in an approved University program, or on approval of the curriculum committee.

### Curriculum in Public Health Nursing

<i>Required Courses:</i>	<i>Credit Hours</i>
P.H. 101 Epidemiology .....	3
P.H. 111 Public Health Administration .....	3
P.H. 114 Mental Hygiene .....	2
P.H. 131 Parasitism and Human Disease .....	3½
P.H. 141 Public Health Nutrition .....	3
P.H. 190 Principles and Practices of Public Health Nursing ..	5
P.H. 191 Public Health Nursing Organization and Administration .....	5
P.H. 196 Special Fields in Public Health Nursing .....	5
Soc. 51 An Introduction to Sociology .....	5
Soc. 174 Community Leadership .....	5
P.H. 198 Growth and Development of the Child .....	3
P.H. 118 Health and Sickness in Modern Society .....	3

For experienced students or graduates of university schools of nursing who have had an acceptable course in any of the above, an elective may be substituted.

### Bachelor of Science in Public Health Nursing

Because of the increasing demands of public health departments for nurses with a baccalaureate degree, it is desirable for students to enroll in the curriculum leading to the degree of Bachelor of Science in Public Health Nursing.

Candidates for this degree must fulfill the following requirements:

1. Satisfactory completion of 90 quarter hours (60 semester hours) in an accredited college or university. The amount of credit not exceeding 90 quarter hours extended for work in other colleges will be determined by the Committee on Admissions.

#### (a) *Required:*

24 quarter hours in the natural sciences, selected from zoology, botany, chemistry, physics, psychology.

20 quarter hours in English.

10 quarter hours in the social sciences, selected from sociology, upper division psychology, history.

#### (b) *Electives:*

The departmental adviser will assist the student in the selection of the remaining courses (36 quarter hours) with reference to her individual needs.

2. Graduation from an approved school of nursing, with credit to be determined by the Committee on Admissions.
3. Satisfactory completion of the curriculum in Public Health Nursing in the School of Public Health at the University of North Carolina.

**TUITION AND FEES**

The tuition is \$100.00 a quarter. This includes the following University charges for each quarter:

Matriculation .....	\$21.00
Student Activities .....	3.85
Special Library Fee .....	3.00
Woman's Association (women students only) .....	1.00

The laboratory fee for the field quarter in Public Health Education and Public Health Nursing is \$300.00 in addition to the \$100.00 tuition.

**MASTER OF SCIENCE IN PUBLIC HEALTH**

The course leading to the degree of Master of Science in Public Health is designed to provide a broad training in the basic health sciences and is intended to prepare students for professional careers in several vital fields of public health.

*Requirements for Admission:* For admission to the program of study leading to this degree students in nursing must satisfy with an acceptable record the following requirement:

1. Graduation from an approved school of nursing and graduation with a bachelor's degree from an accredited college or university. The undergraduate program must have included at least eight course in the natural sciences, and it is desirable that the student shall have had work in social science and education.

*Requirements for the Degree:* The following are the principal requirements for the degree:

1. A period of residence of at least one academic year at the University. For nurses and health educators an additional period of three months devoted to field training under the supervision of the University is required. For other personnel the field training is at present optional.
2. The completion with high grades of an approved program of courses which includes public health administration, epidemiology, sanitation, bacteriology, and statistics. The course program shall involve credits of not less than 45 quarter-hours nor more than 60 quarter-hours.
3. A final written comprehensive examination in the field of the student's major interest, and a comprehensive oral examination on the entire program of study.

Candidates for this degree must complete all the requirements within six years from the time of their first matriculation in the program. Students completing their program over a period of years will be required to satisfy all requirements for the degree which are in effect in the final year of their work.

# SCHOOL OF NURSING STUDENTS

## SENIOR STUDENTS

<i>Name and Preparation</i>	<i>Home Address</i>
Anderson, June Elizabeth..... <i>Madison College.</i>	Vinton, Va.
Ashmore, Newlin..... <i>Florida State College for Women.</i>	Crawfordville, Fla.
Atkinson, Miriam Evelyn..... <i>Mars Hill College; Coker College.</i>	Mullins, S. C.
Auter, June Madeline..... <i>University of Louisville.</i>	Louisville, Ky.
Ballard, Frances Whitley..... <i>East Carolina Teachers College; Peace College.</i>	Clinton, N. C.
Barnhart, Betty..... <i>Roanoke College.</i>	Roanoke, Va.
Bennett, Jean Elizabeth..... <i>Florida State College for Women.</i>	Miami, Fla.
Bland, Myra Virginia..... <i>Woman's College, University of North Carolina.</i>	Kinston, N. C.
Bowers, Elizabeth..... <i>Winthrop College.</i>	Olanta, S. C.
Bray, Ida Paulette..... <i>Madison College.</i>	Nathalie, Va.
Burroughs, Harriet Novita..... <i>Lander College.</i>	Navy Yard, S. C.
Carson, Lenna Ilene..... <i>Madison College.</i>	Bluefield, W. Va.
Chesson, Peggy Eloise..... <i>Mars Hill College.</i>	Elizabeth City, N. C.
Clark, Mary Elizabeth..... <i>Winthrop College.</i>	Johnston, S. C.
Darden, Margaret Elizabeth..... <i>Campbell College.</i>	Broadway, N. C.
Davis, Ruth Ermine..... <i>Elon College.</i>	Durham, N. C.
Deans, Agnes June..... <i>University of Tennessee.</i>	Fountain City, Tenn.
Farrar, Helen Lorraine..... <i>Louisburg College.</i>	Pittsboro, N. C.
Flake, Mary Eva..... <i>Queens College.</i>	Charlotte, N. C.
Franklin, Helen Bryson..... <i>The Woman's College, Duke University.</i>	Asheville, N. C.
Franklin, Virginia Ann..... <i>Madison College.</i>	Lynchburg, Va.
Garland, Zeta..... <i>East Tennessee State College.</i>	Jonesboro, Tenn.



<i>Name and Preparation</i>	<i>Home Address</i>
Hamm, Wanda Jean..... <i>Palm Beach Junior College.</i>	West Palm Beach, Fla.
Honeycutt, Annie Rebecca..... <i>Catawba College.</i>	Salisbury, N. C.
Hubbard, Phyllis..... <i>Madison College.</i>	Chatham, Va.
Hunt, Barbara Seymour..... <i>Winthrop College.</i>	Mountville, S. C.
Kerce, Mary Ellen..... <i>Florida State College for Women.</i>	Mulberry, Fla.
Loflin, Doris Ellen..... <i>Woman's College, University of North Carolina.</i>	Greensboro, N. C.
McNeill, Rebecca Catheline..... <i>Pfeiffer Junior College.</i>	Eagle Springs, N. C.
Mitchell, Margaret Marie..... <i>University of Minnesota; Michigan State College.</i>	East Lansing, Mich.
Moncure, Frances Daniel..... <i>Radford College.</i>	Towson, Md.
Moshoures, Lula Dorothy..... <i>Coker College.</i>	Myrtle Beach, S. C.
Murray, Mary J. Alexander..... <i>Queens College; Woman's College, University of North Carolina.</i>	Pensacola, Fla.
Neighbour, Mary Frances..... <i>Winthrop College.</i>	Spartanburg, S. C.
Osborne, Edith Irene..... <i>Campbell College.</i>	Edenton, N. C.
Pepper, Ella Elizabeth..... <i>Furman University.</i>	Easley, S. C.
Plyler, Helen K..... <i>Winthrop College.</i>	Chester, S. C.
Scott, Helen Arnold..... <i>Elon College.</i>	Lawrenceville, Va.
Sites, Patricia Elizabeth..... <i>Madison College.</i>	Upper Tract, W. Va.
Smith, Mildred Stucker..... <i>Furman University.</i>	Chester, S. C.
Solomon, Jean..... <i>Richmond Professional Institute of the College of William and Mary; University of North Carolina.</i>	Wilmington, N. C.
Strickler, Vivian Lorrain..... <i>Madison College.</i>	Staunton, Va.
Swafford, Peggy Bernice..... <i>University of Tennessee.</i>	Knoxville, Tenn.
Turbeville, Marie Inez..... <i>Winthrop College.</i>	Mullins, S. C.
Vail, Eleanor Glenn..... <i>Peace College; Wake Forest College.</i>	Pikeville, N. C.
Van Steenberg, Neal..... <i>The Woman's College, Duke University.</i>	Greenwich, Conn.

<i>Name and Preparation</i>	<i>Home Address</i>
Wall, Bettye..... <i>Winthrop College.</i>	Chester, S. C.
Wright, Mary Jane..... <i>Ferrum Junior College; Roanoke College.</i>	Salem, Va.

## JUNIOR STUDENTS

Anderson, Carol..... <i>Concord College.</i>	Princeton, W. Va.
Anderson, Mary Ella..... <i>Berry College.</i>	Woodruff, S. C.
Arey, Margaret..... <i>University of Richmond.</i>	Harrisonburg, Va.
Baker, Betty H..... <i>Elon College.</i>	Carthage, N. C.
Beacham, Marian B..... <i>Armstrong Junior College.</i>	Savannah, Ga.
Black, Alice E..... <i>East Tennessee State College.</i>	Johnson City, Tenn.
Bray, Dorothy E..... <i>Elon College.</i>	Elizabeth City, N. C.
Burnham, Carol Jean..... <i>The Woman's College, Duke University.</i>	Durham, N. C.
Cary, Barbara L..... <i>Penn Hall Junior College.</i>	Poughkeepsie, N. Y.
Chandler, Polly L..... <i>Woman's College, University of North Carolina.</i>	Salisbury, N. C.
Chaney, Gloria E..... <i>Richmond Professional Institute of the College of William and Mary.</i>	Martinsville, Va.
Chappell, Johanna M..... <i>John B. Stetson University.</i>	Jacksonville, Fla.
Coleman, Athelle M..... <i>Campbell College.</i>	Lillington, N. C.
Cornwell, Polly M..... <i>Erskine College.</i>	Chester, S. C.
Croom, Bobbie Jane..... <i>Winthrop College.</i>	Mullins, S. C.
Farrar, Catherine L..... <i>Radford College.</i>	South Hill, Va.
Gatewood, Frances W..... <i>Stratford College.</i>	Danville, Va.
Gatlin, Jean M..... <i>St. Mary's College.</i>	Bayboro, N. C.
Hamlen, Nancy A..... <i>The Woman's College, Duke University.</i>	New London, Conn.
Hickman, Alice..... <i>Winthrop College.</i>	Loris, S. C.
Howard, Marolyn..... <i>University of Buffalo.</i>	Snyder, N. Y.
Johnson, Mary A..... <i>Woman's College, University of North Carolina.</i>	Henderson, N. C.
Lewis, Mary J..... <i>North Carolina College Centers.</i>	Wilmington, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>
Lowder, Hilda G..... <i>Wake Forest College.</i>	Norwood, N. C.
Mason, Mary J..... <i>St. Mary's Junior College.</i>	Freehold, N. J.
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Olive, Hilda..... <i>Mars Hill Junior College.</i>	Durham, N. C.
Perkins, Mary Faye..... <i>Meredith College.</i>	Pikeville, N. C.
Perkins, Nell Rose..... <i>Milligan College.</i>	Clintwood, Va.
Pierce, Mamie V..... <i>Flora Macdonald College.</i>	Apex, N. C.
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Sears, Laura A..... <i>Madison College.</i>	Norfolk, Va.
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Wylie, Phyllis M..... <i>Woman's College, University of North Carolina.</i>	Spindale, N. C.
Yelverton, Doris Vail..... <i>Meredith College.</i>	Pikeville, N. C.

## FRESHMAN STUDENTS

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Bartlett, Lorene M..... <i>Fredonia State Teachers College.</i>	Forestville, N. Y.
Bonniville, Roxie A..... <i>Meredith College.</i>	Norfolk, Va.
Cato, Alma S..... <i>Winthrop College.</i>	Monetta, S. C.

<i>Name and Preparation</i>	<i>Home Address</i>
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Coleman, Diane..... <i>Montreat College; Jacksonville Junior College.</i>	Atlantic Beach, Fla.
Coleman, Norma L..... <i>Mars Hill College.</i>	Winston-Salem, N. C.
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Everhart, Lois..... <i>Oklahoma Baptist University.</i>	Thomasville, N. C.
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Herndon, Mary Y..... <i>Greensboro College.</i>	Durham, N. C.
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Jaeger, Margaret A..... <i>University of Tennessee.</i>	Knoxville, Tenn.
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McCall, Ruth..... <i>Flora Macdonald College.</i>	Timmons ville, S. C.
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Power, Frances G..... <i>Winthrop College.</i>	Sumter, S. C.

<i>Name and Preparation</i>	<i>Home Address</i>
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Scott, Jane..... <i>Roanoke College.</i>	Salem, Va.
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Stanford, Jean E..... <i>Roanoke College.</i>	Salem, Va.
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Sutherland, Dottie L..... <i>Salem College.</i>	Cincinnati, Ohio
Tate, Mar Jo..... <i>Louisiana State College.</i>	Baton Rouge, La.
Teal, Betty J..... <i>Greensboro College.</i>	Pine Bluff, N. C.
Tisdale, Suetta..... <i>Winthrop College.</i>	Sumter, S. C.
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Turner, Katherine..... <i>Alabama State College for Women.</i>	Rome, Ga.
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Walters, Pauline J..... <i>Maryville College.</i>	New Market, Tenn.
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Williams, Roberta E..... <i>Florida State University.</i>	Jacksonville, Fla.

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Delaware .....	1	New Jersey .....	1
District of Columbia .....	1	New York .....	3
Florida .....	11	North Carolina .....	45
Georgia .....	3	Ohio .....	1
Hawaii .....	1	South Carolina .....	26
Kentucky .....	1	Tennessee .....	8
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# BULLETIN OF DUKE UNIVERSITY

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*The School of Law*



ANNOUNCEMENTS FOR 1949-1950

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA



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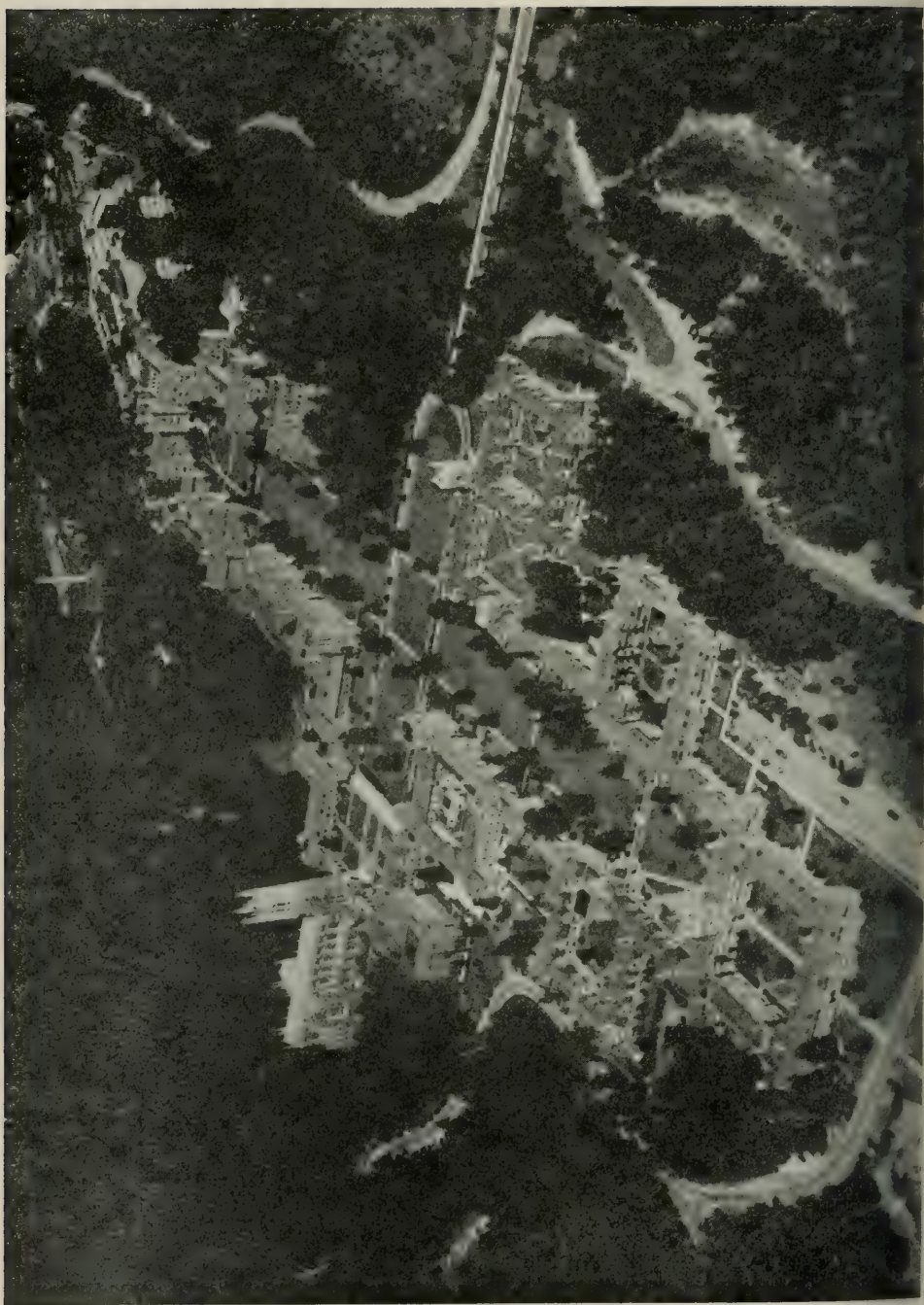
BULLETIN  
OF  
DUKE UNIVERSITY

THE SCHOOL OF LAW



ANNOUNCEMENTS FOR 1949-1950

DURHAM, NORTH CAROLINA  
1949



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A.B. 1919, J.D. 1922, Stanford University; LL.D. 1948, Tulane University; Dean and Professor of Law, University of Wyoming, 1922-23; Associate Professor of Law, Stanford University, 1923-26; Professor of Law, Stanford University, 1926-30; Visiting Professor of Law, University of Chicago, 1929-30; Professor of Law, University of Chicago, 1930-31; Columbia University, summer 1929; University of Minnesota, summer 1930; Stanford University, summer 1932; Dean and Professor of Law, University of Washington, 1931-36; Professor of Law, University of Cincinnati, 1936-39; Secretary, Association of American Law Schools, 1938-40, President, 1941; Military service, 1942-45, Colonel, Ordnance Department Army of the United States, Chief, Legal Division, Office Chief of Ordnance; Professor of Law, Duke University, 1939-47; Dean and Professor of Law, since 1947.

W. BRYAN BOLICH, A.B., B.A. (Juris.), M.A., B.C.L., *Professor of Law*

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University of North Carolina, 1922-25; Duke University, 1932-33; LL.B. 1937, University of Oregon; general practice, 1927-30; assistant in Duke University Legal Aid Clinic, 1931-47; Duke University Counsel since 1945; Associate Professor of Law, Duke University, since 1947.

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A.B. 1918, Austin College; A.M. 1922, Princeton University; Ph.D. 1927, Harvard University; LL.D. 1940, Austin College; Carnegie Fellow in International Law, 1922-23, 1924-25; Member, Executive Council, American Society of International Law, 1929-32, 1936-39, 1944-47; Member, Advisory Committee, Harvard Research in International Law, since 1935; Member, Board of Editors, *American Journal of International Law*, since 1937; United States Department of State: Assistant, Treaty Division, 1931-32; Adviser on Commercial Treaties, 1944-46 (temporarily detailed to American Embassy in China, 1946); Consultant on Commercial Treaties since 1946; Assistant Professor of Political Science, Duke University, 1925-27; Associate Professor of Political Science, Duke University, 1927-29; Professor of Political Science, Duke University, since 1929; Chairman, Department of Political Science, Duke University, 1934-1948; Lecturer in International Law (School of Law), since 1948.

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## II. CALENDAR

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The school year consists of two semesters. Students may begin the study of law only in the Fall semester.

### Fall Semester, 1949

Registration.....	September 14, 1949
Classes begin.....	September 15, 1949
Thanksgiving holiday.....	November 24, 1949
Christmas holiday.....	December 21, 1949, through January 3, 1950
Classes end.....	January 17, 1950
Examinations begin.....	January 19, 1950
Examinations end.....	January 28, 1950

### Spring Semester, 1950

Classes begin.....	January 30, 1950
Spring vacation.....	March 26, 1950, through April 2, 1950
Classes end.....	May 20, 1950
Examinations begin.....	May 22, 1950
Examinations end.....	May 31, 1950
Commencement exercises.....	June 3, 4, and 5, 1950

### III. THE SCHOOL: ITS PURPOSES AND METHODS

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Built on the foundation of the School of Law of Trinity College, with its history of legal instruction running back to the middle of the past century, the Duke University School of Law was established in 1924. In 1930 the School was moved into its present building, the Faculty and library were greatly increased, and the activities of the School broadened. The School of Law is a member of the Association of American Law Schools and is on the "Approved List" of the American Bar Association. More than thirty-five states and one hundred institutions of higher learning are represented in its student body.

The curriculum of the School of Law provides thorough preparation for the practice of law in any state; its graduates have been admitted to the bar in forty states and the Territory of Hawaii. Opportunities for specialization in particular branches of the law are afforded.

In carrying out the trust imposed by the indenture establishing the Duke Endowment, the School of Law seeks to have the student acquire knowledge and comprehension not only of legal doctrine, but also of the judicial process and of the social, economic, and political problems with which law and lawyers must deal. The method of instruction employed compels analysis of judicial opinions and inquiry into the non-legal as well as the legal considerations which underlie them. In appropriate courses, special consideration is given to the work of the legislative and administrative agencies of government. In recognition of the increasing importance of the role of the lawyer in representing private interests before government agencies and in government service, an unusually broad program is offered in the public law field. Scope for creative student work is provided by seminar courses and supervised individual study and research.

Practical training is not left for the first years of practice. A carefully integrated series of courses is designed to give students actual experience in the work of lawyers. Legal research and writing courses and moot court work in the first and second years are followed in the third by seminar courses emphasizing legal planning and drafting and by practice courses and work in the Legal Aid Clinic. A student bar association affords a means whereby the student may gain acquaintance with the professional organizations through which a lawyer may and should contribute to the well-being of his profession and of society.

For details of the program of study see Program of Instruction, page 22. The separate courses are described on pages 26 through 32.

## **IV. ADMISSION OF STUDENTS—REGISTRATION—FEES**

### **DIRECTIONS TO APPLICANTS FOR ADMISSION**

Application must be made on the prescribed Law School application blank which will be sent upon request. No application can be finally passed upon until all required documents are on file. These documents are: (1) the application itself, to which a recently made personal photograph should be attached; (2) a complete transcript of record and evidence of graduation or right to honorable withdrawal from the institution from which credit is offered; (3) letters from (a) a responsible official of the college attended, (b) a responsible person in the applicant's home community, and (c) the applicant himself, in his own handwriting, containing a statement of his general activities and intellectual interests with special reference to reasons for wishing to attend law school; (4) in the case of applicants for admission to the first-year class in 1950 and thereafter, a report of the applicant's score on the Law School Admission Test described below. (This test is not a prerequisite to admission with the class entering in 1949, but must be taken by members of that class either before entrance or at a designated time during their first year of law study.)

The Law School seeks to select students who give promise of leadership in some of the various phases of professional activity. Applicants for admission and their sponsors are requested to keep this fact in mind.

The Law School Admission Test, referred to above, is administered by the Educational Testing Service and is participated in by a number of the leading law schools of the country. It is given four times a year at examination centers conveniently located throughout the United States. No special preparation for the test is necessary, since it is designed to measure aptitudes rather than knowledge of subject matter. The applicant's score on the test will be considered along with other data in passing upon his admission to the Law School. Application forms and information concerning the test should be procured by writing directly to the Educational Testing Service, P.O. Box 592, Princeton, New Jersey.

### **TIMES OF ADMISSION**

Beginning students may enter only at the opening of the Fall semester in any year. Students who have completed the first year of law study at this or any other law school approved by the Association of American Law Schools may enter at the beginning of any semester.

### **REQUIREMENTS FOR ADMISSION**

An application for admission as a candidate for the degree of Bachelor of Laws may be submitted by any person (1) who is a graduate of a college of approved standing and who has maintained a minimum average



of "C" on all work taken, or (2) who has completed in a college of approved standing work equivalent in number of units to three-fourths of that required for graduation and whose college work in its entirety shows an average grade equal to that required for graduation, the requirement in each case being determined by the regulations of the college where the work was taken.

Special provisions for the admission of veterans, whereby military service may be substituted for one year of the three years of college required for admission, are stated below.

### **VETERANS' ADMISSION REQUIREMENTS**

Any person who served in active military or naval service on or after September 16, 1940, and prior to the termination of the war, and who has been discharged or released therefrom under conditions other than dishonorable and who either has served ninety days or more (exclusive of any period he was assigned for a course of education or training under the Army Specialized Training Program or the Navy College Training Program), or has been discharged or released from active service by reason of an actual service-incurred injury or disability, may substitute such term of service for one year of the three years of college required for admission. Academic credits will be recognized if gained through examinations on work of college grade pursued while in the military or naval service, if such work is given credit by an approved college; such credits, however, may not exceed one year of the required two years of college study.

The Duke University School of Law has been approved by the Veterans Administration for law study under the provisions of the Vocational Rehabilitation Act, Public Law 16, and the Servicemen's Readjustment Act of 1944, Public Law 346, often referred to as the "G.I. Bill of Rights." An office is maintained at the University for the handling of the interests of the many students studying under the supervision of the Veterans Administration.

### **COMBINED COURSE**

A number of colleges, upon application by their students, have permitted those who have completed three years of undergraduate work to enter the Law School of Duke University and upon the satisfactory completion of the first year of law school work to receive their Bachelor of Arts degree from such colleges. It is suggested that students desiring to enter Duke University School of Law make inquiry of their proper college authorities regarding this point.

A student from an undergraduate college of Duke University who has completed three years of study may apply to that college to enroll in a combined course wherein his first year of law study may be accepted toward the Bachelor of Arts degree, and, upon the completion of four additional semesters of law study, he will receive the Bachelor of Laws degree.

### **ADMISSION TO ADVANCED STANDING**

Any person who has complied with the requirements for admission set forth in this announcement prior to the commencement of his law study, who presents evidence of the satisfactory completion of at least one year of study at any law school which is a member of the Association of American Law Schools, and who is eligible for readmission to the law school from which he proposes to transfer, may be admitted to advanced standing, subject to such rules as would be applicable to students in this School having a comparable scholastic record. Provisional credit for courses so completed will be given, final credit being conditioned on the completion of at least one full year of law study in this School with an average at least five points above the passing grade. Adjustment of credit for work done in such other law schools may be made by the Dean or by vote of the Faculty.

### **CANDIDATES FOR GRADUATE DEGREES**

Applications for admission to graduate study should be addressed to the Dean of the Law School and should include transcripts of records of legal and pre-legal work. For the requirements for the graduate degrees, see pages 16 and 17.

### **REGISTRATION**

Registration must be completed on the first day of each semester. Instruction will begin in all classes on the following day. The applicant must obtain from the Dean of the Law School an admission card, indicating that he is entitled to register. Registration is conducted in the Law Building. All students, both old and new, are required to register at the beginning of each semester, at which time class schedules and course cards must be filled out and approved. Students who register in any semester at a date later than that prescribed are required to pay to the Treasurer of the University a penalty of \$5.00 for late registration unless excused therefrom.

### **REGISTRATION FOR BAR EXAMINATION**

Many states now require that a student, prior to or shortly after beginning the study of law, register with the board of bar examiners of the state if he intends to practice therein. Each student should write to the secretary of the board of bar examiners of the state in which he plans to practice and ascertain if that state makes this requirement.

### **CONDUCT OF STUDENTS**

All students are admitted subject to the rules of the University and of the School of Law, and continuance in the School is conditioned upon the observance of such rules.

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University, therefore, reserves the right, and matriculation by the student is a concession of this right, to compel the withdrawal

of any student whose conduct at any time is not satisfactory to the University.

### **FEES AND EXPENSES**

Tuition fees are due at the beginning of each semester. The tuition fee is \$175.00 a semester. In addition, a general fee of \$50.00 per semester is required in lieu of separate fees for matriculation, medical service, and the like.

The admission of an applicant is not final unless, within two weeks from the time he is notified that his application has been approved, he deposits the sum of \$25.00 with the Treasurer of the University. This deposit will not be returned. It will be credited to the account of the student or, if the student is entitled to the benefits of the Servicemen's Readjustment Act or the Vocational Rehabilitation Act, it will be refunded upon his matriculation.

An athletic fee of \$5.00, plus any Federal taxes that might be imposed, payable at the beginning of each Fall and Spring semester, is optional. Payment of the athletic fee entitles the student to admission to all athletic events on the campus.

The payment of the general fee entitles the student to full medical and surgical care, with the exceptions noted below. This service is under the direction of the University Physician with the co-operation of the staff of Duke Hospital. It includes hospitalization, medical and surgical care, drugs, dressings, X-ray studies, and ward nursing. A charge for board is made at the same rate as in the University dining halls. Refraction of eyes, treatment of teeth and of all chronic conditions, such as the removal of diseased tonsils, are not included in this service. The cost of any necessary braces and orthopedic appliances as well as of special nursing must be borne by the student.

### **DINING SERVICE**

Food service is cafeteria style. The cost of meals approximates \$1.25 to \$1.75 per day, depending on the need and taste of the individual. The dining facilities on the West Campus include three cafeterias with multiple-choice menus and the Oak Room where full meals and a la carte items are served.

### **THE GRADUATE DORMITORY AND THE "LAW CABINS"**

Furnished double rooms may be secured in the graduate dormitory on the West Campus at \$62.50 per person per semester. A few single rooms are available at \$87.50 per semester.

A group of log cabins, a part of the dormitory system, especially designed as a study center for law students, is located in the Duke Forest about five minutes' walk from the Law Building. These cabins, five in number, including a large cabin for use as a social hall, house thirty-two students. All rooms in the law cabins are furnished double rooms and may be secured at \$40.00 per person per semester.

These charges in each case include heat, light, water, and janitorial service but do not include pillows or bed clothing of any kind.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The fee is deducted from the room rental charge at the time of registration for the semester; it is not refunded unless application for the refund is made sixty days prior to the registration date of the semester.

Each student is expected to supply necessary sheets, blankets, pillows, rugs, and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

Law students are advised to make early application, since assignment of rooms is made considerably in advance of the beginning of each semester. The applicant should state that he has been accepted for admission to the School of Law. All dormitory or cabin rooms are to be occupied under the rules and regulations established by the University. Law students are not required to live in the University dormitories.

#### **LAWS REGARDING PAYMENTS**

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.
2. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full; subsequent withdrawal does not entitle a student to a refund.
3. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all his indebtedness to the University.
4. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the midyear or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

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Further information will be sent upon request. Address

THE DEAN OF THE SCHOOL OF LAW

DUKE UNIVERSITY

Durham, North Carolina



## **V. BACHELOR OF LAWS DEGREE**

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### **REQUIREMENTS FOR THE BACHELOR OF LAWS DEGREE**

Upon favorable recommendation of the Faculty, the degree of Bachelor of Laws will be conferred on students who shall have successfully completed six semesters' study of law, the last two semesters of work immediately preceding the granting of such degree having been completed in this School.

A student shall be deemed to have completed successfully six semesters' study of law if during this period he has

(1) secured a passing grade in courses aggregating the number of semester hours in the first-year program, plus forty-eight semester hours, including all courses required for graduation;

(2) secured in every required course a grade not requiring repetition thereof; and

(3) secured an average grade at least five points above passing in all work taken other than first-year courses, or, if the grade in such work is lower than that above specified, an average grade of five points above passing in all work taken.

Students who have spent only their last two semesters of study in residence in this School must have received an average grade at least five points above passing for that year.

### **MINIMUM AND MAXIMUM STUDENT LOADS**

No regular student is permitted to take less than ten course hours per semester. No first-year student is permitted to take courses in excess of the first-year program.

Second- and third-year students are not permitted to take for credit more than fifteen course hours per semester; nor to audit and take for credit more than sixteen course hours per semester. In exceptional cases, students may petition the Faculty for permission to take more or less than the prescribed maximum or minimum loads.

### **STANDARDS OF SCHOLARSHIP**

**Grades.** The final grades in each course are given in numerical terms which are equivalent to letter grades according to the following scale: 80 to 100, A; 70-80, B; 55-70, C; 50-55, D; 0-50, F.

Grade averages are computed by multiplying the numerical grade in each course by the number of semester hours in that course and by dividing the sum of such products for the courses for which the average grade is sought by the sum of the semester hours in such courses.

A grade of 50 is necessary for passing a course. Where a grade below 50 is given a student in any required course, the course must be repeated if the instructor reports the grade with the notation "must repeat." When a student is required by the instructor to repeat a course which he has



failed, the grade given after such repetition supersedes the previous grade in the course.

**Eligibility to Continue Law Study.** Any student who at the end of his first year or at the end of any subsequent semester, has an average grade lower than 50 on all the work then taken is ineligible to continue his work in the School. Any other student (1) whose average final grade at the end of his first semester is below 50, or (2) whose average grade at the end of any subsequent semester on all the work then taken is below 55, or (3) who in any single semester or in any single year receives failure grades in courses totaling eight or more semester hours, may at any time be declared by the Dean ineligible to continue.

**Notification of Unsatisfactory Scholastic Standing.** Every student subject to the provisions of the second sentence of the paragraph above, who has not been declared ineligible to continue his work in the School will be given a formal, written notice by the Dean's Office. This notice will set forth his average grade or grades and inform him (1) that he will be subject for the ensuing year to the special supervision of the Dean who may order his dismissal from the School in the event of his failure to maintain a satisfactory scholastic standard, and (2) that he will be ineligible to receive a degree unless his work meets the scholastic requirements for graduation which will be set forth in full in such notice.

Every other student whose average final grade at the end of any semester on the work of that semester, or on all work then taken, does not exceed the minimum average grade required for graduation by more than two points will be given a notice similar to that provided for above.

## **VI. GRADUATE WORK IN LAW**

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### **OBJECTIVES OF THE GRADUATE STUDY PROGRAM**

The graduate program of the School of Law is framed with a view to the encouragement and recognition of legal scholarship. It is addressed to the needs of those who have objectives consistent with the purposes of graduate legal education. It provides training for the qualified student who aspires to a teaching career, or who wishes to become proficient in a special field of the law, to do serious legal research, to prepare himself for a public law practice in or out of government, or to acquire a broader and deeper legal education than the undergraduate curriculum offers.

### **ADMISSION TO CANDIDACY FOR THE DEGREE OF MASTER OF LAWS**

Any person who has received the first degree in law from a law school qualified for membership in the Association of American Law Schools may be admitted as a candidate for the degree of Master of Laws, provided he satisfies the Committee on Graduate Study that his objective in desiring to do graduate work in law is consistent with the purposes for which the program is offered, and provided he demonstrates to the Committee, on the basis of his law school record, his capacity to take and profit by graduate work in law. In exceptional cases an applicant who does not meet the first of the above requirements may, on vote of the Faculty, be admitted to candidacy for this degree if he is able to demonstrate that he is specially qualified, as by reason of practice or teaching. Normally the applicant will be required to show a level of scholarship appreciably higher than that required for the first degree in law at the institution from which he received that degree.

### **REQUIREMENTS FOR THE DEGREE OF MASTER OF LAWS**

The degree of Master of Laws is reserved for students who, having demonstrated their capacity for graduate work in law, maintain a level of scholarship substantially higher than that required for the degree of Bachelor of Laws in a course of study which involves distinctively graduate work.

The candidate for this degree is required to complete a course of study comprising not less than twenty nor more than twenty-six semester hours, or approved research equivalent thereto. Two full semesters are required for the completion of this program. A candidate for this degree is required to include in his course of study at least two of the following courses: International Law, Jurisprudence, and Legal History. In addition to the minimum requirement of twenty semester hours, the candidate is required to submit an essay representing substantial research on a legal subject. This essay is to be prepared under the supervision of the instructor in charge of the field in which the research is done.

The candidate's course of study will be selected, ordinarily, from the following list of courses: Public Control of Business, Public Control of Business Seminar, Jurisprudence, Conflict of Laws, International Law, Legal History, Banking, Corporate Planning, Debtors' Estates, Insurance, Contract Planning and Drafting, Corporate Reorganization, Credit and Insolvency (advanced course), Family Law, Family Law Seminar, Future Interests, Tax and Estate Planning, Criminal Law and Procedure (advanced course), Labor Relations, Labor Standards, Labor Law Seminar, Federal Taxation I, Federal Taxation II, and State Taxation. This program of study is not inflexible. In appropriate cases the candidate will be encouraged to take related work in other departments of the University. Other courses of comparable content may be substituted for those listed. In special circumstances, credit not in excess of two hours per semester may be arranged for special, supervised research projects.

#### **ADMISSION TO CANDIDACY FOR THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE**

Any person holding the degree of Master of Laws from this or any other law school which is qualified for membership in the Association of American Law Schools may, on vote of the Faculty, be admitted to candidacy for the degree of Doctor of Juridical Science, provided he completed the work for the Master's degree with distinction.

#### **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE**

Upon favorable recommendation of the Faculty, the degree of Doctor of Juridical Science will be conferred on students admitted to candidacy for that degree who complete and submit a monograph or series of essays suitable for publication and deemed by the Faculty to be of distinguished character. At least one academic year, and, in the absence of an extension granted by the Faculty, not more than three years, must elapse between the award of the Master's degree and the award of the degree of Doctor of Juridical Science. Students who have received the degree of Master of Laws from another law school must spend at least two full semesters engaged in research at this School, and in addition may be required to complete a course of study prescribed by the Committee on Graduate Study. The monograph or series of essays required may be based upon, or be an extension of, the essay required for the Master's degree, provided substantial additional research is represented.

#### **POST-GRADUATE AND REFRESHER COURSES**

The School of Law provides instruction for students not meeting the requirements for admission to candidacy for graduate degrees who desire refresher courses or who desire simply to complete a fourth year of law school work. The successful completion of the courses taken by such students may be evidenced by certificate of the Dean.

## **VII. FACILITIES AND ACTIVITIES**

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### **THE LAW SCHOOL BUILDING**

The Law Building, like all other structures on the main campus of Duke University, is in Tudor Gothic style of colorful Cambrian stone from the Duke University quarries. It was occupied by the School of Law for the first time in September, 1930. In it are classrooms, seminar rooms, offices for Faculty and Staff, quarters for the Legal Aid Clinic and for the Duke Bar Association, a courtroom equipped for trial court and appellate court sessions, and the Law Library. For a description of dormitory accommodations, see page 12.

### **THE LAW LIBRARY**

The Law Library, containing a collection of over eighty-five thousand volumes, is the largest law school collection in the South. It consists of American and English statutory and case law; a collection of Continental law materials; treatises, digests, encyclopedias; the various selected case series; a comprehensive collection of legal periodicals; and publications in the fields of history, economics, government, and the other social sciences, supplemental to the strictly legal materials. The Library receives every current legal periodical of general interest printed in the English language.

There are several thousand additional volumes of a legal nature in the main University library building, immediately adjoining the Law School, as well as the general collection of over half a million volumes, to all of which the law students and Faculty have convenient access.

The Law Library is administered by a professionally trained staff and is open to the public daily throughout the year and in the evenings, as well, whenever the Law School is in session.

### **THE LEGAL AID CLINIC**

A Legal Aid Clinic was organized at the School of Law in 1931 under the direction of Professor John S. Bradway. The purpose of the Clinic is threefold: to give the student experience in handling actual cases; to develop creative skills, techniques, and mental habits; to encourage a sense of responsibility to client, court, profession, and community. The student is obliged to synthesize his knowledge in applying it to concrete situations which may often cut across course boundaries. He is introduced to the technique of fact gathering, the steps in a legal plan of campaign, the handling of clients, the management of a law office. A series of exercises is conducted in legal research and briefing, leading in the first semester to the writing by each student of a trial brief and in the second semester an appellate brief for a lawyer in active practice. Classroom work involves laboratory exercises in preparation for the handling of actual cases. The law practice in the Clinic is of a sort calculated to



stress the ethical responsibilities of the lawyer and the social implications of his work. Instruction in the handling of the actual cases is individualized. Training in the art of interprofessional co-operation is provided through contacts between the Clinic and various agencies of social welfare in North Carolina.

The Legal Aid Clinic is in effect an active law office offering the student, under supervision, experience in interviewing actual clients, investigation of facts, preparing cases for adjustment or for trial in court, writing legal documents, briefing, and other tasks familiar to the practicing attorney. Approximately four hundred persons a year apply for the services of the Clinic. Only those applicants who are unable to pay counsel fees, and only those cases where there is no opportunity for a contingent fee are accepted.

The activities of the Clinic are centered in a suite of offices in the Law School building, and in an interviewing office in the business center of Durham. In addition to the Director, a staff of five members of the North Carolina State Bar assists in the educational and supervisory activities of the Clinic and in representing its clients in court proceedings.

#### **LAW AND CONTEMPORARY PROBLEMS**

The School of Law publishes a quarterly, *Law and Contemporary Problems*, under the editorship of Professors Brainerd Currie, Robert Kramer, and John deJ. Pemberton, Jr. This periodical, now in its fourteenth volume, presents in each issue a symposium on a problem of current importance, in which the interrelated social and economic, as well as legal, factors are discussed by writers of competence in these respective fields. Where student research may contribute to the understanding of the legal aspects of such problems, student writings are accepted for publication. Issues to be published this year will feature discussions of religion and the state, trade-marks, universal human rights, and delivered price systems.

The circulation of *Law and Contemporary Problems* extends not only to members of the legal profession and law libraries throughout the country, but also to industrial and financial concerns, governmental agencies, and public and general university libraries. Individual issues are not infrequently used as materials for study in university courses.

#### **JOURNAL OF LEGAL EDUCATION**

A new quarterly, the *Journal of Legal Education*, is edited at the School of Law under the direction of Professors Brainerd Currie and Robert Kramer. The publication serves as the organ for the Association of American Law Schools, providing a clearing house for ideas and professional studies in the constantly expanding field of legal education. The editorial policy of the *Journal of Legal Education* is determined by an editorial board named by the Association, assisted by an advisory committee consisting of prominent legal educators and practicing attorneys.

#### **THE DUKE BAR ASSOCIATION**

The Duke Bar Association was established in the spring of 1931. It is open to all the students of the Law School and is organized along the



lines of the American Bar Association. Its purpose is to introduce the student to the problems considered by the bar in professional organizations and to develop professional consciousness and responsibility. A Faculty Committee on Student Affairs serves as general adviser to the student officers.

### MOOT COURTS

A program of student Moot Court arguments is conducted under the supervision of the Faculty as a part of the courses in Research and Writing in which all students are required to participate.

### SCHOLARSHIPS AND LOAN FUNDS

Scholarships covering tuition (\$350) are available to a limited number of first-year students, graduates of approved American universities and colleges, who are in need of such assistance. Applicants must have made excellent records in their college work and must show unusual promise of success in the study of law.

Applications for scholarships should be presented to the Dean of the Law School, together with a transcript of college work and letters of recommendation from responsible persons, certifying to the character and fitness of the applicant.

Other scholarships are awarded, as funds may permit, to high-ranking students who have spent a year or more at the Law School. There are also a number of positions as assistants in the Law Library and as research assistants which are open to students, particularly in their second or third year, who do not receive other aids from the University.

The University administers certain endowed loan funds for the benefit of students who are not able to meet their expenses, for the purpose of helping worthy students who have established a satisfactory record at the School to continue their education.

Two funds have been provided out of which small loans may be made to tide students over temporary financial emergencies arising during the course of the year. One of these was supplied by the Law School Guild and is limited as to amount and duration of loan. The other is due to the generosity of Mr. P. Frank Hanes of the Winston-Salem bar and is limited to the needs of selected students. These funds are administered by a committee of the Faculty.

### GRADUATE LAW FELLOWSHIPS

Two graduate fellowships carrying a grant of \$1,500 each are awarded each year. To be eligible for these fellowships, applicants must have completed with distinction the work required for the first degree in law at this Law School or some other school approved by the Association of American Law Schools, and must have been admitted to candidacy for the LL.M. or J.S.D. degree. Preference will be given to students who plan to make law teaching a career. All applications should be addressed to the Dean of the School of Law, Duke University. Fellowships will be

awarded by the law faculty on recommendation of the Committee on Graduate Study.

#### **WILLIS SMITH PRIZE**

Mr. Willis Smith, a member of the Raleigh bar and Chairman of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of law school work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose. To qualify for this prize the student must have made an outstanding record throughout his law school course.

#### **JAMES F. BYRNES SENATE PRIZE**

Delta Theta Phi Foundation, Inc., awards each year to that member of the first year class of the Law School who has completed the work of the first year with the highest scholastic average during that year a cash prize of fifty dollars.

#### **ORDER OF THE COIF**

A chapter of the Order of the Coif, national legal scholarship society, has been established at Duke University School of Law. Its purpose is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Election is restricted to the ten per cent of the graduating class who have attained the highest rank in their law school work.

#### **LEGAL FRATERNITIES**

Three of the largest national legal fraternities maintain active chapters at the School of Law. The Charles Evans Hughes Inn of Phi Delta Phi International Legal Fraternity was founded at the School of Law in 1931 and remained active throughout the war years. The Wiley Rutledge Chapter of Phi Alpha Delta Law Fraternity was founded at the School in 1946. In 1947 the James F. Byrnes Senate of Delta Theta Phi Law Fraternity was installed at the School. All three fraternities seek to further professional standards. Students may be elected to membership at any time following their first full semester of law study. During the school year the fraternities sponsor separate programs of luncheons featuring prominent local speakers from the profession, an annual address by an attorney of national prominence, and occasional social functions.

#### **RECREATIONAL FACILITIES**

The University is located about two miles from the business district of Durham on wooded hills constituting part of the five-thousand-acre Duke Forest, which is maintained by the School of Forestry. Within a short distance from the campus are facilities for golf, horseback riding, and woodland hiking. Students of the Law School are entitled to the use of the University gymnasium, tennis courts, swimming pool, and similar privileges without cost. Motion pictures are shown in Page Auditorium twice a week, and concert programs, recitals, lectures, and plays are presented frequently.

## VIII. PROGRAM OF INSTRUCTION

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The program of instruction of the School of Law has been thoroughly revised as a result of studies made by the Faculty. The curriculum had become overcrowded. For years new courses have been added at this and other schools as new fields of law have become important; old courses have been retained. Students who wished to specialize in particular fields often found it necessary to omit some of the older, more fundamental courses. Insufficient attention had been given to legal writing, the drafting of legal instruments, and legal planning.

The newly adopted curriculum is designed to insure that students may prepare to specialize in practice without foregoing any part of the basic legal education required for general practice and desirable for all specialists. Courses have been combined; duplications in courses have been eliminated. The larger part of students' third year has been opened for studies of specialties. New courses and seminars have been added, especially in the third year in which teaching methods will be different from those used in the older courses. In these courses and seminars legal writing and drafting and legal planning will be emphasized.

The courses offered are listed below. They are grouped under three headings: First-Year Program; Recommended Second-Year Program, and Third-Year Courses. At page 26 the individual courses are described; in that section of the Bulletin they are grouped under the following headings: 1. General Courses; 2. Business Courses; 3. Property Courses; 4. Public Law Courses; 5. Procedure and Practice Courses.

**The First-Year Program** is prescribed. It includes basic courses in the fields of contracts, business associations, property (including sales and other chattel transactions), and torts. These courses serve also to acquaint the student with the nature of the judicial process (which is stressed in Chattel Transactions), the court system and court procedure (stressed in Torts), and legal history (stressed in the second property course and in other courses). In the field of public law, legislation and the legislative process are studied in the first semester; there follows in the second semester a course in the fundamentals of criminal law. A course in research and writing (which is continued throughout the second year), after consideration of how the law is found in law books, trains students in writing memoranda of law and legal arguments and in drafting legal documents; the course emphasizes, for each student, the law of the state in which he intends to practice, and introduces students to the art of legal planning. It includes the preparation of briefs and the arguing of moot court cases.

**The Recommended Second-Year Program** comprises nearly all the other basic courses which all students need regardless of what kind of law practice they plan to enter and the courses prerequisite to third-year work in special fields and in legal planning. Third-year courses may be substi-

tuted for courses in this program with the consent of the instructor and Dean. The research and writing course continues throughout the year. The basic work in property and business associations is completed. In the field of business transactions, the students study negotiable instruments and credit. A course in federal taxation, basic to advanced third-year work for specialists, adequately covers the subject for students not planning to specialize in it. Legal and equitable remedies, and court procedure in civil cases, are studied in the course in remedies. Students continue their study of public law in courses in constitutional and administrative law.

**The Third-Year Courses** (of which an aggregate of 10 to 15 hours each semester is to be selected by each student) are designed to emphasize legal planning and drafting and to enable students to equip themselves to specialize in particular fields. The faculty recommends that all students complete their basic legal education by taking courses in evidence, legal ethics, and public control of business. There are also fundamental courses in legal history and jurisprudence and in conflict of laws and international law. The rest of the third-year courses are in specialties; they are grouped below under the headings (1) business (including *inter alia* advanced corporation law), (2) estates, family, and property, (3) procedure, practice, and local law, and (4) public law (including *inter alia* labor law and taxation). A number of these specialty courses (those preceded by asterisks in the list below) emphasize legal planning and drafting. Each student is required to include two of these courses in his third-year program; enrollment in each is limited.

### THE FIRST-YEAR PROGRAM

	SEMESTER HOURS	
	Fall	Spring
Chattel Transactions .....	2	2
Contracts .....	4	2
*Estates in Land [Including some Future Interests and Landlord and Tenant] .....	1	3
Research and Writing .....	1	1
*Torts [Including some Procedure] .....	3	2
Legislation .....	3	
Business Associations I [Agency, Partnership, Introduction to Corporations] .....		2
Criminal Law .....		2
	<hr/> 14	<hr/> 14

\*Torts to be four hours first half of first semester, two hours second half; Estates in Land to start in middle of first semester as two-hour course.



## THE RECOMMENDED SECOND-YEAR PROGRAM

	SEMESTER HOURS	
	Fall	Spring
Constitutional Law [Including Federal Jurisdiction] ....	3	2
Remedies .....	3	3
Research and Writing II [Required] .....	1	1
Business Associations II [Including Accounting] .....	3	
Conveyancing .....	3	
Negotiable Instruments .....	2	
Administrative Law .....		3
Credit Transactions .....		3
Federal Taxation I .....		3
	<hr/> 15	<hr/> 15

## THE THIRD-YEAR COURSES

Students are to select courses aggregating 10 to 15 hours each semester. Every student must select two of the starred courses listed under "C. Specialties." These courses emphasize legal planning and drafting. Enrollment in each of them is limited.

## A. Recommended for General Practice.

Evidence .....	2	2
Public Control of Business .....	2	
Legal Ethics .....		1
Wills .....		2

## B. Advanced Courses.

Jurisprudence .....	2	
Conflict of Laws .....		2
International Law .....		3
Legal History .....		2

## C. Specialties.

## I. Business. (See also "IV. Public Law.")

*Banking .....	2	
*Corporate Planning .....	2	
Debtors' Estates .....	2	
Insurance .....	2	
*Contract Planning and Drafting .....		1
*Corporate Reorganization .....		2
*Credit and Insolvency—Advanced Course .....		2

## II. Estates, Family, Property.

Family Law .....	2	
Future Interests .....	2	
Trusts .....	2	
Family Law Seminar .....		2
*Tax and Estate Planning (Also listed under "IV. Public Law") .....		2



**III. Procedure, Practice and Local Law.**

	SEMESTER HOURS	
	<i>Fall</i>	<i>Spring</i>
*Legal Aid Clinic .....	2	2
Case Studies (repeated each semester)	Credit to be arranged	
North Carolina Practice .....	2	
Damages .....	2	
North Carolina Statutes and Decisions .....	2	

**IV. Public Law.**

Criminal Law and Procedure—Advanced .....	2	
*Constitutional Law and Federal Courts Seminar		2
Labor Relations [National Labor Relations Act; collective bargaining; strikes, etc.] .....	3	
Labor Standards [Workmen's Compensation, Fair Labor Standards Act, etc.] .....		2
*Labor Law Seminar [Negotiations; contract clauses; grievances; arbitration, etc.] .....		2
Municipal Corporations .....	2	
*Public Control of Business Seminar .....		3
Federal Taxation II .....	3	
State Taxation .....	2	
*Tax and Estate Planning .....		2
(Also listed under "II. Estate, Family, Property")		

## IX. DESCRIPTION OF COURSES

### 1. GENERAL COURSES

**Conflict of Laws.** A study of the special problems which arise when the significant facts of a case are connected with more than one jurisdiction. Recognition and effect of foreign judgments; choice of law; federal courts and conflict of laws; the United States Constitution and conflict of laws. Two hours a week second semester. Mr. CURRIE

**Damages.** The measurement of damages with special emphasis upon the application of the standards of value and certainty, and upon the relation between the procedural and substantive aspects of damage litigation. Two hours a week second semester. Mr. McDERMOTT

**Family Law.** A seminar approach to the cases, statutes, and sociological theories covering the contract to marry, its formation and breach; marriage; annulment; divorce; separation; property rights; and international jurisdiction. Selected materials. Two hours a week first semester. Mr. BRADWAY

**Seminar in Family Law.** A seminar approach to the efforts of the social sciences, including the law, to deal with the intricate and perplexing problems of the modern family. Readings are assigned in legal and sociological material. Class discussions are based upon some central topic, such as divorce, domestic relations courts, etc. Written reports required in lieu of an examination. Family Law is prerequisite. Two hours a week second semester. Mr. BRADWAY

**Jurisprudence.** Discussion of some of the basic problems of classical and contemporary juristic theory, with applications to cases and statutes. Two hours a week first semester. Mr. KRAMER

**Legal History.** A study of the development of fundamental English and American legal institutions, with emphasis upon historical method and the conditioning factors, social, economic and political. Two hours a week second semester. Mr. BOLICH

**North Carolina Statutes and Decisions.** A study of selected statutes of North Carolina with discussion of their application, and an analysis of the decisions of the Supreme Court of North Carolina construing them. Not offered in 1949-50. Two hours a week second semester. Mr. BRYSON

**Torts.** The bases of liability in damages for personal injuries and injuries to property: bases other than fault; negligence; intentional infliction of harm. Procedure in jury trials; proof of negligence; causation and "proximate cause"; defenses; the damages recoverable. Special rules applicable to occupiers and owners of land, motor vehicle accidents, suppliers of goods and remote contractors. Misrepresentation and fraud; defamation; assault and battery; false imprisonment. Four hours a week first half of first semester, two hours a week second half of first semester, two hours a week second semester. Mr. MAGGS

**Trusts.** The nature, creation and elements of a trust; transfer of the beneficiary's interest; administration of trusts; termination and modification of trusts; charitable trusts; liabilities to third persons; and liabilities of third persons. Two hours a week first semester. Mr. LOWNDES

### 2. BUSINESS COURSES

**Banking.** Relations between bank and customer and between banks, bank functions and policies, federal and state regulation of banking, and economic

aspects of these. Work of the semester will be devoted primarily to advanced research projects involving planning, drafting, and writing, rather than to general coverage of the entire syllabus by all students. Two hours a week first semester.

MR. PEMBERTON

**Business Associations I.** Legal principles concerning association in business by agency, partnership, other unincorporated forms and corporations. Creation, form and nature of agency, partnership and corporation, corporate existence (*de facto* corporations, corporate entity and its limitations), powers, duties, liabilities and compensation of agents, partners, officers and directors, risks in conduct of business by representatives (vicarious liability in tort, authority to contract), imputation of notice and knowledge, scope of enterprise (*ultra vires*), revocation and termination of authority, ratification, undisclosed business associates, stability of the associational relationship. The purpose of this course is to grasp basic principles of Agency and Partnership and elementary doctrines of corporation law as a foundation for the advanced corporation course (Business Associations II). Two hours a week second semester.

MR. LATTY

**Business Associations II.** Promoters, subscription to and issue of shares, stock structure and corporate capital, dividends, preferred stock, bonds, capital increases and reduction, corporate re-acquisition of own stock, elementary principles of corporate accounting, public issue of securities, stock transfers, fundamental corporate changes (recapitalization, sale, merger and consolidation, dissolution), stockholders' suits, and certain principles concerning management and operation not studied in Business Associations I. Three hours a week first semester.

MR. LATTY

**Contracts.** Problems in the formation of simple contracts (making of promises and judicial standards of interpretation, offer and acceptance); the consideration doctrine; third party beneficiaries; assignments; Statute of Frauds, including legal effects of failure to comply; the performance and breach of contract (conditions, order of performance, anticipatory breach); illegal bargains (types, nature and effect of illegality); discharge of contracts. Four hours a week first semester, two hours a week second semester.

MR. SHEPHERD

**Contract Planning and Drafting.** The work will consist of the formulation and drafting of contractual instruments involved in common business transactions. One hour a week second semester.

MR. SHEPHERD

**Corporate Planning.** The student is given hypothetical corporate problems (perhaps taken from the practicing lawyer's desk) on a client's proposed course of action; each problem is designed to require the student to grasp the business situation and goals involved, analyze for pertinent legal principles, plan the transaction to avoid legal and business (including taxation) pitfalls, plan the requisite steps to consummate the desired transaction, draft the appropriate papers, and present his research. Two hours a week first semester.

MESSRS. LATTY AND KRAMER

**Corporate Reorganization.** Reorganization of financially embarrassed corporations in equity proceedings, under state statutes, and under the Bankruptcy Act, Chapters X and XI. Comparison with simplifications of public utility holding company systems under the Holding Company Act of 1935. Recapitalization of solvent corporations. Work of the semester will be devoted primarily to advanced research projects involving planning, drafting, and writing, rather than to coverage of an entire syllabus by all students. Two hours a week second semester.

MESSRS. LATTY AND PEMBERTON

**Credit and Insolvency.** A more intense study of selected problems falling in the fields of credit transactions and debtors' estates, especially bankruptcy. Creditors' choice of remedies including alternative methods of liquidation or

administration of insolvent estates; insolvencies passing through several methods of administration. Work of the semester will be devoted primarily to advanced research projects involving planning, drafting and writing, rather than to general coverage of an entire syllabus by all students. Two hours a week second semester.

MR. PEMBERTON

**Credit Transactions.** Contracts of accommodation, including those on bills and notes, contracts of suretyship and guaranty, letters of credit. Mortgages and security interests in real property, chattel mortgages, pledges, trust receipts, conditional sales and consignment contracts. Three hours a week second semester.

MR. PEMBERTON

**Debtors' Estates.** Rights of creditor and debtor in the administration of insolvent estates in bankruptcy, with comparisons to alternative methods of administration: compositions, assignments for the benefit of creditors, receiverships, and special proceedings for certain classes of debtors. An introduction to proceedings for the rehabilitation of debtors under the Bankruptcy Act, including arrangements and reorganizations. Two hours a week first semester.

MR. PEMBERTON

**Insurance.** The nature of "insurance"; state supervision and control; types of insurance organizations; the legal requirement of insurable interest; interests of others than the named insured; the measure of indemnity and subrogation; the beneficiary's interest in life insurance; the insured event and excepted causes; warranties, representations and concealment; the making of insurance contracts; waiver, estoppel and election. Two hours a week first semester.

MR. McDERMOTT

**Negotiable Instruments.** Negotiability of bills and notes; execution of negotiable instruments; obligations of parties; formal requisites of negotiability; transfer and negotiation; requisites of holding in due course; equities and defenses; discharge. Introduction to legal relations between bank and customer. Two hours a week first semester.

MR. PEMBERTON

**Public Control of Business.** See Public Law Courses, page 29, for description. Two hours a week first semester.

MR. CURRIE

**Public Control of Business Seminar.** See Public Law Courses, page 29, for description. Three hours a week second semester.

MESSRS. CURRIE AND LIVENGOOD

and members of the ECONOMICS DEPARTMENT STAFF

### 3. PROPERTY COURSES

**Chattel Transactions.** The course covers most of the topics generally treated under the heading of Personal Property, Bailment and Sales; application of the concepts of possession and title in the law of personal property; the bailment relationship; artisan's lien; transfer of chattels by gift, sale and miscellaneous inter vivos transactions. In Sales, the emphasis is on remedies and performance. Special attention is given to the judicial process and technique. Problems of chattel mortgages, pledges and sales financing are considered only incidentally, being reserved for the course in Credit Transactions. Two hours a week throughout the year.

MR. LATTY

**Conveyancing.** Form and execution of deeds; description in deeds; rents, licenses, easements and profits; covenants and agreements running with the land at law and in equity; estoppel by deed; recording and title registration. Three hours a week first semester.

MR. BOLICH

**Estates in Land.** Historical introduction to real property with a detailed consideration of the modern law of possessory estates, including the fee simple, the fee tail, the life estate, the estate for years, and other non-freeholds; concurrent ownership; incidents of possessory ownership relative to water, lateral



and subjacent support and air; and the types of future interests. Two hours a week second half of first semester, three hours a week second semester.

MR. BOLICH

**Future Interests.** Future interests in real and personal property; reversions; vested and contingent remainders; executory interests; rights of entry; possibilities of reverter, gifts to classes; powers; perpetuities; construction of wills and deeds as affecting the validity and characteristics of the interests created thereby. Two hours a week first semester.

MR. BOLICH

**Tax and Estate Planning.** Seminar devoted to problems and techniques of tax and estate planning. Taxation I and Future Interests are prerequisites to enrollment in the seminar. Two hours a week second semester.

MESSRS. BOLICH, KRAMER, AND LOWNDES

**Trusts.** See General Courses, page 26, for description. Two hours a week first semester.

MR. LOWNDES

**Wills and Administration of Estates.** Descent and distribution; property rights of surviving spouse; children and descendants; ancestors and collaterals; effect of claimant's misconduct. Making and revoking wills; testamentary capacity; execution of wills; holographic and special types; integration; testamentary character and intent; revocation; operation of legacies and devises. Probate and administration: grant of administration; probate and contest of wills; assets; contracts, sales and investments by personal representative; claims; settlement of the estate. Two hours a week second semester.

MR. McDERMOTT

#### 4. PUBLIC LAW COURSES

**Administrative Law.** The formulation of statutory schemes of administrative regulation; the organization of administrative agencies; the determination, promulgation and enforcement of administrative programs; the respective spheres of administrative and judicial responsibility; judicial control over administrative action. Practice and procedure before administrative agencies; informal conferences and negotiations; formal hearings; constitutional limitations. Three hours a week second semester.

MR. KRAMER

**Constitutional Law.** Judicial protection against arbitrary governmental action; the history of the concept of a "higher law"; the constitutional clauses relied upon. The organization and jurisdiction of the federal courts; when and how judicial review can be invoked; limitations on governmental power with respect to economic matters, civil liberties and criminal and civil procedure. The powers of Congress, express and implied; limitations on State governmental powers resulting from the existence and from the exercise of Congressional powers. The constitutional questions involved in administrative law, conflict of laws, intergovernmental tax immunities, jurisdiction to tax, and state taxation of interstate commerce are covered more fully in other courses. Three hours a week first semester, two hours a week second semester.

MR. MAGGS

**Constitutional Law and Federal Courts Seminar.** Advanced study of current Supreme Court cases and of particular fields in constitutional law and history and federal court organization. Two hours a week second semester.

MR. MAGGS

**Criminal Law.** An introductory study of the law of crimes and the administration of criminal justice; analysis of the criminal act and the mental element in crime; consideration of specific offenses as defined by statute and the common law; discussion of typical defenses in relation to specific crimes; elementary criminal procedure; study of the Anglo-American penal system. Two hours a week second semester.

MR. LIVENGOOD



**Criminal Law and Procedure (Advanced).** A seminar approach to the preparation and trial of criminal cases; theories of crime and punishment; modern trends in the definition and punishment of crimes; trial techniques. Two hours a week second semester. MR. LIVENGOOD

**Federal Taxation I.** An introduction to the federal income, estate and gift taxes, with particular emphasis on the federal income tax. The course is designed as a final course for students who do not intend to specialize in tax practice and as an introductory course for those who do. Three hours a week second semester. MR. LOWNDES

**Federal Taxation II.** Advanced course in federal taxation and federal tax practice. Problems in income tax practice and procedure, followed by a detailed study of the federal estate and gift taxes and the relation of the federal income, estate and gift taxes. Three hours a week first semester. MR. LOWNDES

**International Law.** A survey of public international law of peace, as evidenced especially in decisions of national and of international courts; the drafting and interpretation of treaties; the nature and handling of international claims; the organization and jurisdiction of international tribunals, with special reference to the International Court of Justice; developments with respect to the codification of the law. Three hours a week second semester. MR. WILSON

**Labor Law Seminar.** An intensive study of labor law problems, with emphasis on collective bargaining techniques, drafting union contract clauses, grievance and arbitration procedures, specific applications of the National Labor Relations Act, and some legal and economic aspects of the management-labor relationship. Prerequisite: Labor Relations. Two hours a week second semester. MR. LIVENGOOD

**Labor Relations.** A study of the law relating to collective bargaining and concerted labor activities, including the National Labor Relations Act and related legislation, state and federal anti-injunction statutes, the legal aspects of strikes, boycotts and picketing, the law of labor contracts and labor unions. Three hours a week first semester. MR. LIVENGOOD

**Labor Standards.** A consideration of the governmental regulation of labor conditions, including the theory and application of the workmen's compensation laws, maximum hours and minimum wage statutes, state industrial safety codes, the Public Contracts Act, Fair Labor Standards Act and related legislation. Labor Relations not a prerequisite. Two hours a week second semester. MR. LIVENGOOD

**Legislation.** A general introduction to the field of Public Law, including, among others, the following topics: organization, techniques, procedures, and problems of legislative bodies; formulation of legislative policies; and drafting and interpretation of statutes. Three hours a week first semester. MR. KRAMER

**Municipal Corporations.** The nature of municipal corporations; their external constitution; their internal constitution; their powers; their liabilities; remedies for and against municipal corporations. Two hours a week first semester. MR. McDERMOTT

**Public Control of Business.** Survey of governmental control measures; elements of federal antitrust legislation and of the law of trade-marks, trade names, and unfair competition. Two hours a week first semester. MR. CURRIE

**Public Control of Business Seminar.** Intensive study of the federal antitrust laws and their common-law background, with emphasis on the economic policies involved. Three hours a week second semester.

MESSRS. CURRIE AND LIVENGOOD  
and members of the ECONOMICS DEPARTMENT STAFF

**State Taxation.** Constitutional limitations on the taxing power; jurisdiction to tax; state excise taxes; and the general property tax. Two hours a week first semester. MR. LOWNDES

**Tax and Estate Planning.** See Property Courses, page 28, for description. Two hours a week second semester. MESSRS. BOLICH, KRAMER, AND LOWNDES

## 5. PROCEDURE AND PRACTICE COURSES

**Case Studies.** Detailed analysis of an important civil suit, under supervision of a visiting instructor who was counsel therein. The instructor's files and the record and briefs will be studied. Consideration will be given to how the matter first arose and what business or other problems of the client were involved; how counsel first analyzed the matter and how he ascertained relevant facts; how counsel prepared for and conducted the trial and appellate proceedings. Repeated each semester. Hours and credit to be arranged.

INSTRUCTOR TO BE ANNOUNCED

**Evidence.** Examination of witnesses; admission and exclusion; competency of witnesses; privilege; relevancy; demonstrative evidence; writings; the hearsay rule and exceptions thereto; the burden of producing evidence; presumptions; the burden of persuasion; judicial notice. Two hours a week throughout the year. MR. McDERMOTT

**Legal Aid Clinic.** During the first semester the objectives of the course are: to give the student experience in actual cases; to develop creative skills, techniques and mental habits; to encourage a sense of responsibility to client, court, profession and community. Students under supervision of staff attorneys and in co-operation with members of the Durham bar, court officials and social and other professional agencies in the community, engage, so far as students may, in the handling of actual cases from the first interview with the client until the final disposition of the problem by litigation or otherwise. Trial briefs are prepared for lawyers in active practice. In the second semester the students continue their work with actual cases and clients. In addition they are given experience in special exercises such as building legal documents, dealing with members of other professional groups, conciliation proceedings. Appellate briefs are written for lawyers in active practice. Opportunity is afforded for special work in fields of particular interest. Two hours a week throughout the year.

MR. BRADWAY

**Legal Ethics.** A seminar approach to the ethical problems of the lawyer and the profession. Readings are assigned in legal biography, law reform, the history of the profession, legal aid work. Class discussions cover canons of ethics, statutes, cases, and opinions of grievance committees dealing with the daily problems of the practicing lawyer. A written report is required on some phase of the reform of the administration of justice. One hour a week second semester.

MR. BRADWAY

**North Carolina Practice.** A study of the steps in an action at law from the issuance of process to the entry of final judgment including service of process; appearance and waiver of process; selecting the jury; various motions made during the trial; submission of case to jury; verdict; judgment; noting and perfecting appeal. Also included are such topics as jurisdiction of various courts in North Carolina; venue; trials without a jury; provisional remedies and special proceedings. Two hours a week second semester. MR. BRYSON

**Remedies.** A study of the principal remedies available for the judicial enforcement of substantive rights, and the procedure by which these remedies are pursued. The first part of the course is devoted chiefly to equitable remedies, but includes the basic principles of restitution (quasi contract and specific restitution) and declaratory judgments, with such incidental reference

to damages as is necessary for comparison. The second part (approximately two-thirds of the course) consists of a general study of procedure in civil actions at common law and under the codes and the Federal Rules of Civil Procedure: jurisdiction, venue, institution of suit, parties, joinder of causes, pleadings and objections thereto, provisional and extraordinary remedies, pre-trial hearings, trials, judgments, and appellate review. Three hours a week throughout the year.

MR. STANSBURY

## 6. LEGAL RESEARCH AND WRITING

**Research and Writing I.** Classroom instruction and individual problems in the use of law books, the preparation of memoranda of law, and moot-court briefing and argument. The first year of a two-year program designed to familiarize the student with the materials and methods of legal research and legal writing. One hour a week throughout the year.

MESSRS. STANSBURY, BRYSON, AND BRADWAY,  
AND THE LEGAL AID CLINIC STAFF

**Research and Writing II.** The second year of the two-year program of research and writing. In addition to more advanced work of the kind involved in the first-year program, the student will be assigned one or more problems in drafting legal instruments, and will assist in editing memoranda prepared by first-year students and in judging first-year moot court arguments. Required of all second-year students. One hour a week throughout the year.

MESSRS. STANSBURY, BRYSON, AND BRADWAY,  
AND THE LEGAL AID CLINIC STAFF

Upon recommendation of the Committee on Graduate Study, seminars not listed in the bulletin may be created or arrangements made for supervision of special research by individual graduate students in any subject.

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All matters presented in this bulletin are subject to change as the University or the School of Law may deem expedient.

## X. STUDENTS

### ENROLLMENT FOR 1948-49

(Includes all persons who registered September 15, 1949.)

#### FIRST-YEAR CLASS

Ailstock, James Walter, Jr. B.S., Virginia Polytechnic Institute, 1948.	Beckley, W. Va.
Allen, Carnot Richardson, Jr. B.S., Northwestern University, 1948.	Winnetka, Ill.
Altemus, Robert Charles University of North Carolina, 1944; University of Pittsburgh, 1946; Pennsylvania State College, 1946-1948.	Homer City, Pa.
Anthony, James Nicholas A.B., The Citadel, 1948.	Charleston, S. C.
Barfield, James Roy Duke University, 1946-1948.	Pikeville, N. C.
Bauer, Donald Ralph A.B., Michigan State College, 1948.	Wyandotte, Mich.
Bebout, Donald Richard Phoenix Junior College, 1946-1948.	Washington, Pa.
Berg, Edward Carl, III B.S., Yale University, 1948.	Wethersfield, Conn.
Bivins, William Otis, Jr. Virginia Polytechnic Institute, 1942-1946; West Virginia University, 1946-1947; Bluefield College, 1947; Concord College, 1947-1948.	Bluefield, W. Va.
Boddie, Mrs. Willie Grace Collins B.S., Farmville State Teachers College, 1943.	Durham, N. C.
Boggus, Van Buell University of Southern California, 1946-1948.	Los Angeles, Calif.
Bostwick, John Allen, Jr. A.B., Duke University, 1947.	Birmingham, Ala.
Browning, James Richardson A.B., Duke University, 1948.	Whiteville, N. C.
Caldwell, Robert Tate, Jr. A.B., Harvard College, 1947.	Ashland, Ky.
Cameron, William Duncan Duke University, 1946-1948.	Kinston, N. C.
Cammack, Allen Berriman, Jr. A.B., Duke University, 1948.	Burlington, N. C.
Chaffin, John Taylor College of William & Mary, 1946; Duke University, 1946-1948.	South Mills, N. C.
Chappell, Thomas Tye A.B., Duke University, 1947.	Plainfield, N. J.
Claycomb, Charles Percival, Jr. Western Kentucky State Teachers College, 1946-1948.	Webster, Ky.
Clement, Robert Lebby, Jr. A.B., The Citadel, 1948.	Charleston, S. C.



- Cochran, Thomas Rodney  
A.B., Dartmouth College, 1947.
- Comer, Charles Alexander  
University of Chattanooga, 1946-1948.
- Cumberledge, George Buford  
College of Steubenville, 1946-1948.
- deKruif, Jack Herbert  
Grand Rapids Junior College, 1939;  
Hope College, 1946;  
Michigan State College, 1947-1948.
- DeSantis, Samuel Mark  
A.B., Allegheny College, 1948.
- DeYoe, Wood McKee  
A.B., Dartmouth College, 1947.
- Dodge, Harold Thaddeus  
Champlain College, 1946-1948.
- Douglas, Richard Sands  
A.B., Duke University, 1948.
- Dufour, Alfred Edmondston  
A.B., The Citadel, 1948.
- Eaves, George Washington, Jr.  
Duke University, 1946-1948.
- Ellis, Michael Barton  
Belmont-Abbey Junior College, 1946-1948.
- Ely, William Thomas  
Vanderbilt University, 1946;  
Murray State Teachers College, 1946-1948.
- Engelman, Morton Henry  
B.S., University of Connecticut, 1948.
- Everett, Ned Purvis  
B.S., Davidson College, 1948.
- Everingham, Bishop Skillman  
B.S., Linfield College, 1948.
- Fleming, James Carlton  
Duke University, 1945-1948.
- Foss, George Bridges, Jr.  
Birmingham-Southern College, 1946-1948.
- Foster, Russell D.  
Bethany College, 1936-1937, 1947-1948.
- Geoffroy, Roger Louis  
Ohio State University, 1943-1944;  
American International College, 1946-1948.
- Gillis, Wellington Albert  
A.B., University of Alabama, 1946;  
M.A., Northwestern University, 1948.
- Gilman, John Bruce, Jr.  
A.B., Columbia University, 1948.
- Glenn, Donald Lyons  
A.B., Tusculum College, 1948.
- Glickfield, David  
East Tennessee State College, 1943-1947.
- Godfrey, George Franklin  
B.S., Duke University, 1948.
- Gore, Jay, Jr.  
A.B., University of Mississippi, 1948.
- Sheldon, Iowa
- Chattanooga, Tenn.
- Weirton, W. Va.
- Grand Rapids, Mich.
- Meadville, Pa.
- Paterson, N. J.
- Loudonville, N. Y.
- Westfield, N. J.
- Charleston, S. C.
- Henderson, N. C.
- Savannah, Ga.
- Benton, Ky.
- Middlebury, Conn.
- Robersonville, N. C.
- McMinnville, Ore.
- Martinsville, Va.
- Birmingham, Ala.
- Cardale, Pa.
- Springfield, Mass.
- Malden, Mass.
- White Plains, N. Y.
- Lockport, N. Y.
- Johnson City, Tenn.
- Jacksonville, Fla.
- Grenada, Miss.



- Gregg, James Russell  
 A.B., State College of Washington, 1948.
- Grist, William Taylor  
 University of North Carolina, 1946-1947;  
 Lenoir-Rhyne College, 1947-1948.
- Hall, Frank Dawson  
 Duke University, 1945-1948.
- Hanlon, David Gordon  
 Duke University, 1942-1943;  
 Texas College of Mines, 1946-1947;  
 Duke University, 1947-1948.
- Harlem, Arnold  
 A.B., New York University, 1948.
- Harrington, John Allen  
 Duke University, 1946-1948.
- Hawkins, James Robert  
 Duke University, 1942-1943, 1946-1948.
- Henley, Eugene Patrick  
 B.S., North Carolina State College, 1939.
- Herrick, John Waters  
 Duke University, 1945-1948.
- Hiasen, Kermit Odel  
 A.B., Emory University, 1948.
- Hondulas, John Louis  
 University of Tennessee, 1946-1948.
- Howe, Standish Sturtevant  
 A.B., University of Michigan, 1948.
- Howe, William Bell White  
 Duke University, 1945-1948.
- Hoyle, John William, III  
 A.B., High Point College, 1947.
- Jack, Robert George  
 Allegheny College, 1943-1944;  
 Cumberland University, 1946;  
 Ohio University, 1946-48.
- Johnson, Frederick Heppe, Jr.  
 A.B., Muhlenberg College, 1948.
- Kanehann, William Nicholas  
 A.B., Columbia University, 1946.
- Kistler, David Reeves  
 Duke University, 1946-1948.
- Klein, Frederic Milton  
 A.B., Tufts College, 1948.
- Knighton, Maurice Deal  
 Junior College of Kansas City, 1940-1942;  
 University of Kansas City, 1944, 1947-1948.
- Koski, Henry William  
 A.B., Ohio Wesleyan University, 1947.
- Lacey, James Robert  
 Duke University, 1945-1948.
- Lancaster, Purvis Talmadge  
 A.B., High Point College, 1947.
- Larned, George Hambury  
 A.B., Rutgers University, 1948.
- Pullman, Wash.
- Charlotte, N. C.
- Coral Gables, Fla.
- Beaumont, Tex.
- Brooklyn, N. Y.
- Merry Oaks, N. C.
- Mebane, N. C.
- Durham, N. C.
- Jamestown, N. Y.
- Fort Lauderdale, Fla.
- Knoxville, Tenn.
- Port Huron, Mich.
- Hendersonville, N. C.
- Marion, N. C.
- Nelsonville, Ohio
- Allentown, Pa.
- Allentown, Pa.
- Durham, N. C.
- New Haven, Conn.
- Kansas City, Mo.
- Ashtabula, Ohio
- Newark, N. J.
- Winston-Salem, N. C.
- Rutherford, N. J.

- Leary, James Edward  
A.B., Duke University, 1948. Jonesboro, Ark.
- Lee, John Lawrence  
Texas A. & M. College, 1933, 1937;  
Sul Ross State Teachers College, 1936. Cameron, Tex.
- Loeser, Edward Arthur  
Knox College, 1946-1948. Galesburg, Ill.
- Long, Claude Homer  
Duke University, 1946-1948. Astatula, Fla.
- Lynch, Luby Raeford, Jr.  
Duke University, 1943, 1946-1948. Wilmington, N. C.
- McCoy, John Philip  
Duke University, 1944-1945, 1947-1948. Mount Pleasant, Tenn.
- McDonald, Arthur Allen, Jr.  
A.B., University of North Carolina, 1947. Durham, N. C.
- McKinnon, Arnold Borden  
Duke University, 1944-1945, 1947-1948. Lumberton, N. C.
- Maroney, James Travis, Jr.  
North Texas State College, 1946, 1947. Lufkin, Tex.
- Martin, George Wilson  
Oak Ridge Military Institute, 1943-1945;  
Duke University, 1946-1948. Mocksville, N. C.
- Marx, Edward Elias  
A.B., Franklin and Marshall College, 1948. New York, N. Y.
- Mast, Everett Leo  
Appalachian State Teachers College, 1945-1946, 1947-1948. Sugar Grove, N. C.
- Matheny, Charles Henry  
A.B., High Point College, 1948. Parkersburg, W. Va.
- Millar, William Imber  
Duke University, 1945-1948. Waynesville, N. C.
- Mitrano, Daniel Charles  
Ph.B., Providence College, 1942. North Easton, Mass.
- Morrow, George Richard  
West Virginia Institute of Technology, 1946-1948. Forest City, N. C.
- Morton, Marion Billy  
Duke University, 1945-1948. Albemarle, N. C.
- Mulet, Guillermo L.  
A.B., Polytechnic Institute of Puerto Rico, 1944. Ciudad Trujillo, Republica Dominicana
- Nazor, Gordon Lang  
Duke University, 1945-1948. Ashtabula, Ohio
- Nichols, Frank David  
A.B., University of Michigan, 1948. Cleveland, Ohio
- Oakes, Luther Taylor  
A.B., Duke University, 1948. Weldon, N. C.
- Olsen, Robert Wayne  
A.B., University of Michigan, 1948. Sioux Falls, S. D.
- Oppenheim, Alfred Martin  
University of Pennsylvania, 1942;  
Duke University, 1945-1948. Westfield, N. J.
- Orr, George Eadie  
Duke University, 1946-1948. Miami, Fla.
- Osten, Henry Van Dyne  
A.B., Rollins College, 1948. Garden City, N. Y.

- O'Toole, Robert Joseph  
University of Connecticut, 1946-1948.
- Page, Robert Lionel  
B.S., Duke University, 1945.
- Patalano, John Anthony  
Susquehanna University, 1943;  
Tufts College, 1946-1947.
- Perlis, Marvin Elliott  
B.S., New York University, 1948.
- Perry, James Franklin  
Michigan, State College, 1947, 1948.
- Phipps, James Gordon  
San Bernardino Valley Union Junior College, 1946-1948.
- Pierce, John Everett, Jr.  
Duke University, 1944-1945;  
University of Florida, 1946-1948.
- Rabin, David  
B.S., Duke University, 1946.
- Redman, Charles Bryson  
A.B., Rice Institute, 1948.
- Richman, Harold Morton  
Duke University, 1942-1943, 1946-1948.
- Rickman, William Millender  
Duke University, 1946-1948.
- Rosenberg, Frederick Dietrick  
Hamilton College, 1946-1948.
- Rosoff, Stanley Kermit  
College of the City of New York, 1943-1944;  
Syracuse University, 1947-1948.
- Rudersdorf, Ward James  
University of Wisconsin, 1941-1942;  
Central State Teachers College, 1946-1948.
- Russell, Howard Mills  
A.B., University of California at Los Angeles, 1948.
- Sands, George Lewis  
Duke University, 1941-1942, 1947-1948.
- Scott, James Allen  
A.B., Duke University, 1947.
- Seltzer, Donald Miller  
B.S., North Carolina State College, 1948.
- Shell, Vernon Melvin  
A.B., Furman University, 1948.
- Shelton, Thomas Austin  
Duke University, 1946-1948.
- Simmons, Roy Glen  
A.B., Oberlin College, 1948.
- Smith, DeWitt Talmadge  
A.B., Duke University, 1947.
- Smith, Milly Roberts  
Duke University, 1946-1948.
- Smith, William Miller  
A.B., The Citadel, 1948.
- Spence, Charles Wilson  
Duke University, 1946-1948.
- Hamden, Conn.
- Erick, Okla.
- Somerville, Mass.
- Kew Gardens, L. I., N. Y.
- Lansing, Mich.
- San Bernardino, Calif.
- Daytona Beach, Fla.
- Carrboro, N. C.
- Kannapolis, N. C.
- Newport News, Va.
- Asheville, N. C.
- Binghamton, N. Y.
- Bronx, N. Y.
- Waupaca, Wis.
- Wilmington, N. C.
- Wilmington, Del.
- Concord, N. C.
- Concord, N. C.
- Greenville, S. C.
- Bat Cave, N. C.
- Manahawkin, N. J.
- Durham, N. C.
- Murfreesboro, Tenn.
- Charlotte, N. C.
- Clayton, N. C.

- Stearns, Donald Mosure  
A.B., Otterbein College, 1948.
- Steed, Wilton Ernest  
A.B., Arkansas State Teachers College, 1948.
- Stevenson, William Hartin, Jr.  
Presbyterian College, 1946-1948.
- Stout, Mrs. Lina Lee Spence  
A.B., Meredith College, 1932.
- Styers, Robert Lee  
A.B., Duke University, 1948.
- Surratt, John Richard  
B.S., University of North Carolina, 1948.
- Switz, Alec Richard, Jr.  
Defiance College, 1946-1948.
- Terry, Howard Chester  
A.B., Duke University, 1947.
- Thomaides, Theodore George  
A.B., Duke University, 1948.
- Thomasson, George Butler  
B.S., Davidson College, 1948.
- Thomasson, James Toombs, Jr.  
West Georgia College, 1940-1941, 1946-1948.
- Thorne, John Milton  
Duke University, 1946-1948.
- Villanueva, Charles Edward  
A.B., Duke University, 1948.
- Williamson, Edward Lorenza  
B.S., Wake Forest College, 1947.
- Williamson, John Clark  
Duke University, 1946-1948.
- Wilson, Junius Dean  
Mars Hill Junior College, 1946-1948.
- Wright, James Victor  
A.B., Duke University, 1948.
- Zwanetz, David  
B.S., Temple University, 1948.
- Lima, Ohio
- Conway, Ark.
- Sumter, S. C.
- Durham, N. C.
- Winston-Salem, N. C.
- Winston-Salem, N. C.
- Old Mystic, Conn.
- Chicago, Ill.
- Washington, D. C.
- Kings Mountain, N. C.
- LaGrange, Ga.
- Durham, N. C.
- Orange, N. J.
- Cerro Gordo, N. C.
- Raleigh, N. C.
- Asheville, N. C.
- Java, Va.
- Philadelphia, Pa.

## SECOND-YEAR CLASS

- Adams, Richard Ammon  
A.B., Gettysburg College, 1941.
- Adams, William Hester, III  
A.B., Duke University, 1947.
- Alexander, Arthur Lee  
A.B., Duke University, 1947.
- Barbee, Charles Wesley, Jr.  
A.B., Duke University, 1947.
- Baumgartner, Edgar Davidson  
A.B., Duke University, 1947.
- Beltman, Laurence John  
A.B., Hope College, 1946.
- Bittle, Claude Ehresmann  
A.B., Duke University, 1948.
- Bivins, Stephen Thomas  
A.B., Cornell University, 1947.
- Pine Grove, Pa.
- Atlantic Beach, Fla.
- Lebanon, N. J.
- Durham, N. C.
- Hillburn, N. Y.
- Goldsboro, N. C.
- Madisonville, Ky.
- Milledgeville, Ga.

- Bobertz, William Arnold  
     B.S., Rutgers University, 1941;  
     A.B., Rutgers University, 1947.
- Boone, William Gardner, Jr.  
     A.B., Duke University, 1948.
- Bracnaro, James William  
     A.B., Yale University, 1947.
- Briggs, Ranald Urton  
     A.B., Duke University, 1947.
- Brown, Bachman Storch, Jr.  
     A.B., Duke University, 1947.
- Butler, Paul Frederick  
     A.B., Duke University, 1947.
- Cameron, William Roy, Jr.  
     Duke University, 1941-1942, 1946-1947.
- Cate, James Gus, Jr.  
     A.B., University of the South, 1947.
- Clifford, Robert Lance  
     A.B., Lehigh University, 1947.
- Clontz, Ralph Clayton, Jr.  
     B.S., Davidson College, 1947.
- Cole, Winslow Warren, Jr.  
     B.S., Miami University, 1947.
- Coleman, John James, Jr.  
     A.B., Duke University, 1947.
- Collister, Cameron  
     A.B., University of Pennsylvania, 1947.
- Cross, Ray Y.  
     A.B., Duke University, 1947.
- Dooley, Lawrence Mermier  
     A.B., The Citadel, 1947.
- Fraser, Donald Henderson  
     A.B., Wofford College, 1947.
- Free, Edgar Dauphin  
     A.B., Haverford College, 1944;  
     University of Pennsylvania Law School, 1946-1947.
- Fullerton, Bushnell  
     A.B., Bucknell University, 1947.
- Gardner, Robert Randolph  
     A.B., Duke University, 1947.
- Gray, Arbor William  
     University of Utah, 1940-1942;  
     Duke University, 1946-1947.
- Griffin, Charles Franklin  
     B.S., University of North Carolina, 1947.
- Grogan, Roy Joe  
     North Texas Agricultural College, 1943-1944;  
     Weatherford College, 1944, 1946-1947.
- Gwyn, Allen Hatchett, Jr.  
     A.B., Duke University, 1947.
- Hadlow, Earl Bryce  
     A.B., Duke University, 1947.
- Hamlin, Guy Andrews  
     University of Vermont, 1941-1943, 1946-1947.
- Hillside, N. J.
- Memphis, Tenn.
- Shelton, Conn.
- Dayton, Ohio
- China Grove, N. C.
- Jacksonville, Fla.
- Indiana, Pa.
- Cleveland, Tenn.
- Ramsey, N. J.
- Charlotte, N. C.
- Daytona Beach, Fla.
- Birmingham, Ala.
- Parma Heights, Ohio
- Albany, Ga.
- New Haven, Conn.
- Walterboro, S. C.
- Philadelphia, Pa.
- Barrington, Ill.
- Columbia, Tenn.
- Salt Lake City, Utah
- Monroe, N. C.
- Weatherford, Tex.
- Reidsville, N. C.
- Greenville, S. C.
- Brushton, N. Y.



- Hart, Thomas George, Jr.  
A.B., Duke University, 1947. West Hartford, Conn.
- Hodson, Thomas Sherwood, III  
Duke University, 1944-1945, 1947;  
University of North Carolina, 1946. Hendersonville, N. C.
- Holley, Charles Richard  
A.B., Duke University, 1948. Ocala, Fla.
- Holloman, Charles Robert  
B.S., Western Carolina State Teachers College, 1939. Kinston, N. C.
- Holloway, Fuller  
Duke University, 1928-1929, 1946-1947. Durham, N. C.
- Hunter, Wallace Kilborne  
A.B., Muhlenberg College, 1947. Moravia, N. Y.
- Hutchins, Lawrence Edgar  
B.S., University of North Carolina, 1943. Yadkinville, N. C.
- Johnson, Russell Helge  
B.S., University of Wisconsin, 1944. LaCrosse, Wis.
- Knudsen, Arthur Knute, Jr.  
Michigan State College, 1943-1944, 1946-1947. Lansing, Mich.
- Lawton, Thomas Oregon, Jr.  
A.B., Duke University, 1947. Fairfax, S. C.
- Lee, Hugh Alfred  
A.B., University of North Carolina, 1947. Marion, N. C.
- Lim, Kwan Hi  
University of Hawaii, 1940-1942, 1944-1946;  
Boston College Law School, 1947-1948. Honolulu, Hawaii
- Lloyd, Robert Blackwell, Jr.  
A.B., Harvard University, 1947. Greensboro, N. C.
- Lurie, Herbert Manning  
A.B., Dartmouth College, 1946. Pittsburgh, Pa.
- McClain, Oren Walsh  
A.B., Otterbein College, 1947. Middletown, Ohio
- Marks, Edwin Robert  
A.B., Bucknell University, 1947. Danville, Pa.
- Marlowe, Rufus Edward  
A.B., Duke University, 1940. Atlanta, Ga.
- Mason, Walter Harrison  
A.B., Duke University, 1947. Pittsburgh, Pa.
- Max, Henry Leo  
A.B., Marshall College, 1937. Huntington, W. Va.
- Merritt, Davis Reid  
North Georgia College, 1943-1944;  
University of Georgia, 1946-1948;  
University of Georgia Law School, 1947-1948. Buford, Ga.
- Mervine, William David  
A.B., Williams College, 1942. Phoenixville, Pa.
- Osborne, Wallace Sherrill  
Clemson A. & M. College, 1942-1943;  
Clarion State Teachers College, 1943;  
Duke University, 1945-1947. Charlotte, N. C.
- Pace, Fred Charles  
Duke University, 1945-1947. Shenandoah, Pa.
- Page, John Thomas, Jr.  
B.S., Wake Forest College, 1947. Rockingham, N. C.

- Patterson, William Robert  
A.B., Lenoir-Rhyne College, 1947.
- Pavey, Charles Robert  
B.S., University of Illinois, 1942.
- Philipp, Albert Ernest, Jr.  
A.B., Duke University, 1948.
- Pingree, Hedley Gordon  
A.B., University of New Hampshire, 1948.
- Pino, Daniel Richard  
A.B., Syracuse University, 1947.
- Potcat, Thomas Lawton  
A.B., Duke University, 1947.
- Potter, Robert Daniel  
A.B., Duke University, 1947.
- Reams, Hugh Etherton  
A.B., Washington and Lee University, 1947;  
Washington and Lee Law School, 1947-1948.
- Routh, John Webb  
B.E., Yale University, 1947.
- Rutledge, Jean Ann  
A.B., Indiana University, 1947.
- Shannon, Charles Melvin, Jr.  
A.B., Duke University, 1947.
- Shields, Luther Perry  
Duke University, 1945-1947.
- St. Clair, Clifford Meade  
A.B., Pennsylvania State College, 1947.
- Stokes, Robert Fraser, Jr.  
B.S., Pennsylvania State College, 1947.
- Stormes, Ben F.  
A.B., Ohio University, 1947.
- Suddard, Oliver Vincent  
A.B., Duke University, 1947.
- Sugg, Joseph Leo  
A.B., Duke University, 1947.
- Vann, Arthur  
A.B., Duke University, 1947.
- Vannoy, Wade Eugene, Jr.  
B.S., Wake Forest College, 1947.
- Vick, Annie Sue  
A.B., Greensboro College, 1946.
- Wachenfeld, William Thomas  
A.B., Tufts College, 1947.
- Wagner, Franklin Porter  
B.S., Bucknell University, 1947.
- Walker, Harry Clayton  
Duke University, 1945-1947.
- Watson, William Wood  
A.B., Duke University, 1947.
- Wellman, John Wilson  
Duke University, 1946, 1947.
- West, James Arthur, Jr.  
B.S., Wake Forest College, 1947.
- Hickory, N. C.
- Lawrenceville, Ill.
- Bogota, N. J.
- Great Neck, L. I., N. Y.
- Long Island, N. Y.
- New York, N. Y.
- Wilmington, N. C.
- Toledo, Ohio
- Bronxville, N. Y.
- Washington, D. C.
- Mount Jackson, Va.
- Maryville, Tenn.
- Johnstown, Pa.
- Clairton, Pa.
- Akron, Ohio
- Newark, Del.
- Durham, N. C.
- Dunn, N. C.
- West Jefferson, N. C.
- Denton, N. C.
- Orange, N. J.
- Danville, Pa.
- Greenville, S. C.
- Eastham, Mass.
- Wilkesboro, N. C.
- Wilmington, N. C.

- Whitehead, Robert Clifton, Jr.  
Duke University, 1941-1942, 1946-1947. San Antonio, Tex.
- Williams, Daniel McGregor, Jr.  
A.B., Duke University, 1948. Durham, N. C.
- Wilson, Nathan Hughs  
Duke University, 1945-1947. Charlotte, N. C.
- Winders, William Rudolph  
A.B., Duke University, 1947. Bristol, Tenn.
- Wolfe, James Boyd, Jr.  
A.B., Duke University, 1947. Greensboro, N. C.
- Zinn, Charles Andrew  
A.B., Duke University, 1942. Altoona, Pa.

## THIRD-YEAR CLASS

- Allen, Louis Carr, Jr.  
A.B., Duke University, 1945. Burlington, N. C.
- Bader, William Allen  
A.B., Syracuse University, 1940. Bridgeport, Conn.
- Beaman, Nathaniel, III  
A.B., Duke University, 1945. Norfolk, Va.
- Benedetti, Francis Anthony  
Duke University, 1943-1946. Washington, D. C.
- Benson, Clifford Charles  
B.S., University of Idaho, 1943. Seattle, Wash.
- Blanchard, Charles Fuller  
A.B., Duke University, 1947. Raleigh, N. C.
- Boone, Edwin Eugene, Jr.  
B.S., University of North Carolina, 1944. Greensboro, N. C.
- Borst, Alan Wills  
A.B., Yale University, 1944. White Plains, N. Y.
- Bouldin, Joseph Edmunds  
A.B., University of North Carolina, 1941. Oxford, N. C.
- Butz, Walter Heter  
Bowling Green State University, 1941-1943, 1945-1946. Bellevue, Ohio
- Clodfelter, Robert Franklin  
Mars Hill Junior College, 1941-1943;  
Villanova College, 1944. Greensboro, N. C.
- Cobb, Nelson Jacob  
Kent State University, 1944-1946. Akron, Ohio
- Daugherty, Duncan Wilmer, Jr.  
Louisiana State University, 1942;  
Marshall College, 1942-1943;  
West Virginia University, 1945-1946. Huntington, W. Va.
- Dozier, Riley Clarence, Jr.  
A.B., Duke University, 1948. South Mills, N. C.
- Eddy, Arthur Crowell  
A.B., Whittier College, 1946. National City, Calif.
- Farrer, William Cameron  
A.B., University of California at Los Angeles, 1946;  
Northwestern University Law School, Summer, 1946;  
Stanford University Law School, 1946-1948;  
University of Colorado Law School, Summer, 1948. Los Angeles, Calif.
- Gantt, Samuel Fox  
A.B., Duke University, 1947. Durham, N. C.
- Goldberg, Robert Abraham  
A.B., Duke University, 1940. North Conway, N. H.

- Griffith, Brantley Boyd  
A.B., Duke University, 1947.
- Hicks, Claude Thomas  
A.B., Wake Forest College, 1946;  
Wake Forest College Law School, 1946-1947.
- Holt, Duncan Waldo, Jr.  
A.B., Duke University, 1946.
- Howard, James Arthur  
A.B., University of North Carolina, 1941.
- Jones, Marvin Douglas  
A.B., Berea College, 1942.
- Kupp, Elaine Beatrice  
A.B., Duke University, 1947.
- Kusturiss, Michael Emanuel  
University of Pittsburgh, 1942-1943;  
Bucknell University, 1943-1944;  
Duke University, 1944-1945.
- Leaming, William VanDeventer  
A.B., State University of Iowa, 1946;  
M.A., State University of Iowa, 1946;  
University of Iowa College of Law, 1946-1947.
- Logan, Ben Harrison, Jr.  
A.B., University of Akron, 1939.
- Lowry, William John  
A.B., Duke University, 1947.
- Maynard, Frederick Charles, Jr.  
A.B., Wesleyan University, 1946.
- Moppert, Edward Joseph, Jr.  
A.B., Duke University, 1946.
- Moy, Cornelius Bernard, Jr.  
A.B., Marietta College, 1946.
- Owens, Hollis Monroe, Jr.  
A.B., Wofford College, 1943.
- Pagani, Louis Paul  
B.B.A., Manhattan College, 1943.
- Page, Allen Perley, Jr.  
A.B., Duke University, 1947.
- Parker, Benjamin Joseph  
A.B., Duke University, 1946.
- Pearce, Alden Gray  
A.B., University of California at Los Angeles, 1946.
- Rowley, Robert Batcheller  
A.B., Middlebury College, 1946.
- Sears, Leila  
A.B., Radcliffe College, 1943.
- Shoemaker, Franklin Reynolds  
A.B., Duke University, 1947.
- Smith, Sidney William, Jr.  
A.B., Duke University, 1946.
- Speth, Charles Theodore  
A.B., Duke University, 1944.
- Stephen, James Barnett  
A.B., University of South Carolina, 1945.
- Taylor, David Kerr  
A.B., Duke University, 1947.
- Lebanon, Va.
- Pinnacle, N. C.
- Greensboro, N. C.
- Norfolk, Va.
- Paintsville, Ky.
- Depew, N. Y.
- Canonsburg, Pa.
- Newton, Iowa
- Akron, Ohio
- East Cleveland, Ohio
- New Haven, Conn.
- Cranford, N. J.
- Easton, Pa.
- Avondale, N. C.
- Bronx, N. Y.
- Williamsport, Pa.
- Hamden, Conn.
- Sherman Oaks, Calif.
- Newton Centre, Mass.
- Wayland, Mass.
- Knoxville, Tenn.
- Atlanta, Ga.
- South Temple, Pa.
- Pacolet, S. C.
- Oxford, N. C.

- Welton, Robert Glenn  
A.B., Duke University, 1944. Ellwood City, Pa.
- Whitener, Joe Park  
Lenoir-Rhyne College, 1942-1943;  
North Carolina State College, 1943-1944;  
New York University, 1944-1945. Hickory, N. C.
- Whitman, Elkins Oliphant  
Memphis State College, 1940-1941;  
Bucknell University, 1943-1944. Columbus, Miss.
- Williams, Silas, Jr.  
A.B., University of the South, 1945. Chattanooga, Tenn.
- Wolff, Robert Stanley  
A.B., Duke University, 1947. Rhodesdale, Md.
- Yelverton, Calvin Robert, Jr.  
Atlantic Christian College, 1940-1941;  
Duke University, 1941-1943. Fremont, N. C.

## UNCLASSIFIED STUDENTS

- Carden, Julius Garland, Jr.  
B.S., University of North Carolina, 1944;  
LL.B., Duke University, 1948. Durham, N. C.
- Ferree, Max Fulton  
Duke University, 1941-1943;  
LL.B., Duke University, 1948. Winston-Salem, N. C.
- Frantz, Laurent Brown  
A.B., University of Tennessee, 1932;  
LL.B., University of Tennessee, 1935. Durham, N. C.
- Lee, Lawrence Frederick, Jr.  
Yale University, 1940-1941;  
Duke University, 1946-1948. Jacksonville, Fla.
- Leuthold, Richard Albert  
A.B., Duke University, 1943;  
LL.B., Duke University, 1948. Warren, Pa.
- Walter, Eugene Victor  
A.B., University of Miami, 1947. Miami Beach, Fla.

## GRADUATE STUDENTS

- Daniels, James Burton  
B.S., University of Denver, 1948;  
LL.B., University of Denver, 1948. Monmouth, Ore.
- Fuller, Manley Kearns  
A.B., Duke University, 1947;  
LL.B., Duke University, 1948. Laurinburg, N. C.
- Herbert, Bueford Gilbert  
University of Louisville, 1942-1943;  
Emory University, 1943-1944;  
Duke University, 1944;  
University of Colorado, 1945;  
Oklahoma A. & M., 1945;  
LL.B., University of Louisville, 1948. Louisville, Ky.
- Johnson, Benjamin Franklin, Jr.  
A.B., University of Georgia, 1937.  
J.D., Emory University, 1939. Daytona Beach, Fla.
- Lemmon, William James  
University of Florida, 1942-1943;  
Newark College of Engineering, 1943-1944;  
LL.B., University of Florida, 1948. Miami, Fla.
- Levy, Ralph Victor  
A.B., University of Georgia, 1938;  
LL.B., University of Georgia, 1940. Augusta, Ga.



North, John Edward	Omaha, Neb.
Creighton University, 1943, 1946; Peru State Teachers College, 1943-1944; LL.B., Creighton University, 1948.	
Stanford, William Henry, Jr.	Valdosta, Ga.
A.B., Mercer University, 1947; LL.B., Mercer University, 1948.	
Strickland, Marion Ortez	Vidalia, Ga.
B.S., Alabama Polytechnic Institute, 1946; LL.B., Mercer University, 1948.	
Thomas, Earl Castleman	Louisville, Ky.
University of Louisville, 1940-1943; LL.B., University of Louisville, 1948.	

## INSTITUTIONS REPRESENTED

Akron, University of	Hamilton College
Alabama Polytechnic Institute	Harvard University
Alabama, University of	Haverford College
Allegheny College	Hawaii, University of
American International College	High Point College
Appalachian State Teachers College	Hope College
Arkansas State Teachers College	Idaho, University of
Belmont-Abbey Junior College	Illinois, University of
Berea College	Indiana University
Bethany College	Iowa, State University of
Birmingham-Southern College	Kent State University
Bluefield College	Kansas City, Junior College of
Boston College	Kansas City, University of
Bowling Green State University	Knox College
Bucknell University	Lehigh University
California, University of, at Los Angeles	Lenoir-Rhyne College
Central State Teachers College	Linfield College
Champlain College	Louisiana State University
Chattanooga, University of	Louisville, University of
Citadel, The	Manhattan College
Clarion State Teachers College	Marietta College
Clemson Agricultural College	Mars Hill Junior College
Colorado, University of	Marshall College
Columbia University	Memphis State College
Concord College	Mercer University
Connecticut, University of	Meredith College
Cornell University	Miami University
Creighton University	Miami, University of
Dartmouth College	Michigan State College
Davidson College	Michigan, University of
Defiance College	Middlebury College
Denver, University of	Mississippi, University of
Duke University	Muhlenberg College
East Tennessee State College	Murray State Teachers College
Emory University	Newark College of Engineering
Farmville State Teachers College	New Hampshire, University of
Florida, University of	New York, College of the City of
Franklin and Marshall College	New York University
Furman University	North Carolina State College
Georgia, University of	North Carolina, University of
Gettysburg College	North Texas Agricultural College
Grand Rapids Junior College	North Texas State College
Greensboro College	Northwestern University
	Oberlin College

Ohio State University	Texas Agricultural and Mechanical College
Ohio Wesleyan University	Tufts College
Oklahoma Agricultural and Mechanical College	Tusculum College
Otterbein College	Utah, University of
Pennsylvania State College	Vanderbilt University
Pennsylvania, University of	Vermont, University of
Phoenix Junior College	Virginia Polytechnic Institute
Pittsburgh, University of	Villanova College
Polytechnic Institute of Puerto Rico	Wake Forest College
Presbyterian College	Washington and Lee University
Providence College	Washington, State College of
Radcliffe College	Weatherford College
Rice Institute of Technology	Wesleyan University
Rollins College	West Virginia Institute of Technology
Rutgers University	West Virginia University
San Bernardino Junior College	Western Carolina State Teachers College
South, University of the	West Georgia College
Southern California, University of	Western Kentucky State Teachers College
South Carolina, University of	Whittier College
Stanford University	William and Mary, College of
Steubenville, College of	Williams College
Sul Ross State Teachers College	Wisconsin, University of
Susquehanna University	Wofford College
Syracuse University	Yale University
Temple University	
Tennessee, University of	
Texas College of Mines	

### STATES AND FOREIGN COUNTRIES REPRESENTED

Alabama, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Illinois, Iowa, Kentucky, Maryland, Massachusetts, Michigan, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, District of Columbia, Dominican Republic, Hawaii. Total 36.

### GENERAL SUMMARY

First-Year Class .....	137
Second-Year Class .....	90
Third-Year Class .....	48
Graduate students .....	10
Unclassified .....	6
Total Enrollment .....	291
Total Number of Institutions Represented .....	138
Total Number of States Represented .....	36

### DEGREES AWARDED IN 1948

#### BACHELOR OF LAWS

Baker, Richard Herschel Duke University, 1940-1942.	Inverness, Miss.
Barnett, Robert Pray A.B., Duke University, 1942.	Wilmington, Del.
Black, William Snyder A.B., Morehead State Teachers College, 1943.	Richmond, Ky.
Bloch, Arnold Ralph Detroit Institute of Technology, 1938-1941.	Detroit, Mich.

- Boyce, Pearl Lorraine  
B.S.C., University of Iowa, 1941;  
Drake University Law School, 1942-1943.
- Breithaupt, George Lemert  
A.B., Miami University, 1942.
- Brock, Ray Leonard, Jr.  
University of Tennessee, 1940-1943;  
The Citadel, 1943-1944;  
University of Colorado Law School, 1945-1946.
- Burke, George Leonard, Jr.  
B.S., North Carolina State College, 1929.
- Cameron, Orton Jasper  
A.B., University of North Carolina, 1942.
- Clemence, Randall Byrd  
A.B., Albion College, 1943.
- Conley, Hollie  
A.B., University of Kentucky, 1942.
- Cregg, Donald Joseph  
A.B., Duke University, 1942.
- Dailey, Frank Walter  
A.B., Duke University, 1941.
- Eastwood, Roland Herbert  
Ohio Wesleyan University, 1939-1943.
- Eckhoff, Paul Sheppard  
A.B., Duke University, 1942.
- Friedberg, Edwin Peter  
A.B., Duke University, 1943.
- Gardner, Russell Menese  
A.B., Duke University, 1942.
- Gray, William Howard  
George Washington University, 1940-1942;  
Duke University, 1942-1943.
- Greene, James Harrison  
A.B., Duke University, 1943.
- Gresham, Emmett Burdell  
Augusta Junior College, 1939-1942.
- Grossenheider, Joseph Warren  
A.B., Duke University, 1943.
- Haines, William Emens  
Duke University, 1940-1943.
- Hall, Forrest Chalmers  
A.B., Elon College, 1946.
- Hickman, Marcus Tobias  
A.B., Duke University, 1943.
- Hollyday, John Samuel  
A.B., Duke University, 1940.
- Horne, Robert Darley  
B.S., University of Georgia, 1940.
- Horton, Shelby Edmund, Jr.  
A.B., University of North Carolina, 1939.
- Hyldburg, Carl Albert  
A.B., University of New Hampshire, 1946.
- Kearney, Charles Martin  
A.B., University of Notre Dame, 1942.
- Paullina, Iowa
- Dresden, Ohio
- McDonald, Tenn.
- Spencer, N. C.
- Greensboro, N. C.
- Flint, Mich.
- Garrett, Ky.
- Methuen, Mass.
- Durham, N. C.
- Miami, Fla.
- Garden City, N. Y.
- Atlantic City, N. J.
- Miami Beach, Fla.
- Huntington, W. Va.
- Syracuse, N. Y.
- Columbia, S. C.
- Webster Groves, Mo.
- Bridgeport, Conn.
- Burlington, N. C.
- Hudson, N. C.
- Hagerstown, Md.
- Cordele, Ga.
- Asheville, N. C.
- Concord, N. H.
- Dixon, Ill.

- Kennerly, Charles Odell, Jr.  
A.B., High Point College, 1942. Lexington, N. C.
- Leffler, Harold Gordon  
B.S., University of Illinois, 1939;  
M.S., University of Illinois, 1941;  
University of Illinois Law School, 1946-1947. Champaign, Ill.
- Levine, Solomon  
University of Illinois, 1939-1942. Raleigh, N. C.
- Lord, James Couper  
A.B., Harvard University, 1942. Long Island, N. Y.
- MacKenzie, Hendry Kenneth  
Jamestown College, 1939-1942;  
University of Minnesota, 1941-1942. Jamestown, N. D.
- McCardell, Edward Joseph, Jr.  
B.S., Drexel Institute of Technology, 1940. Trenton, N. J.
- McCoy, John Owen  
B.B.A., University of Georgia, 1943. Homer, Ga.
- Manley, Irwin Grotta  
South Dakota State College, 1938-1942. Arlington, S. D.
- Masengill, Hal Akard  
A.B., Berea College, 1942. Blountville, Tenn.
- May, Robert Lee, Jr.  
Brevard Junior College, 1940-1942. Wilmington, N. C.
- Meadows, Edward Louis  
A.B., Roanoke College, 1940. Roanoke, Va.
- Miller, Robert Barclay, Jr.  
A.B., Duke University, 1942. Long Branch, N. J.
- Minor, John Michael  
University of Cincinnati, 1935-1941. Winston-Salem, N. C.
- Moody, George Wilmot  
A.B., University of Vermont, 1943. Burlington, Vt.
- Myers, deRosset  
A.B., University of the South, 1941. Charleston, S. C.
- Newsome, George Hassell  
Duke University, 1944-1945. Tarboro, N. C.
- Phillips, Charles Anthony  
B.S., University of Virginia, 1945. Baltimore, Md.
- Poole, John Gibbs, Jr.  
Duke University, 1940-1943, 1945. Charlotte, N. C.
- Price, Theodore Richard  
A.B., University of Akron, 1943. Akron, Ohio
- Primm, Arthur Weeks  
A.B., Duke University, 1944. Miami, Fla.
- Rocap, Edward  
A.B., Duke University, 1947. Springfield, Pa.
- Seigler, Ray Moody  
B.S., University of South Carolina, 1943. Aiken, S. C.
- Shumaker, Audrey Lenore  
A.B., Duke University, 1946. Lewistown, Pa.
- Simpson, John A.  
Marshall College, 1941-1943. Ashland, Ky.
- Skinner, George Stevens  
A.B., Colgate University, 1942. Washington, D. C.

- Snepp, Frank Warren, Jr.  
A.B., Columbia University, 1940;  
Columbia University Law School, 1940-1941. Charlotte, N. C.
- Stone, Albert Ward  
A.B., University of California, 1943;  
University of California Law School, 1942-1943. Oakland, Calif.
- Stone, Frederick Hamilton  
A.B., Duke University, 1947. Springfield, Ill.
- Sweeney, Asher William  
Youngstown College, 1939-1941. Salem, Ohio
- Thackeray, Joseph Clarkson  
A.B., Marietta College, 1937. Urbana, Ohio
- Thompson, Drury Blair  
A.B., Davidson College, 1941. Danville, Va.
- Turley, James Anthony, Jr.  
A.B., Middlebury College, 1941. New Rochelle, N. Y.
- Turner, John Morley  
John B. Stetson University, 1938-1940;  
Duke University, 1940-1943;  
University of Hawaii, 1945-1946. Homestead, Fla.
- Vanderpool, William Sherman, Jr.  
A.B., Duke University, 1943. Anadarko, Okla.
- Walsh, Thomas Emmet, Jr.  
A.B., Wofford College, 1941. Orangeburg, S. C.
- Walter, Robert Wheaton  
A.B., Duke University, 1947. Long Island, N. Y.
- Walton, Dan Edward  
A.B., Vanderbilt University, 1942;  
Vanderbilt University Law School, 1941-1942. Johnson City, Tenn.
- Warner, Tim Goode  
A.B., Duke University, 1946. Greensboro, N. C.
- Warren, Errol Jordan  
B.S., University of South Carolina, 1947. Rocky Mount, N. C.
- White, Charles Ward  
B.S., Wake Forest College, 1940. Durham, N. C.
- Wilmoth, Wendell R.  
University of North Carolina, 1928-1929;  
Western Carolina Teachers College, 1931-1932;  
Appalachian State Teachers College, Summers 1934-1938, 1939;  
Catawba College, Summer 1940. Rural Hall, N. C.
- Wilson, Edgar Hunter  
Wake Forest College, 1940-1941;  
Biltmore College, 1941-1942;  
George Washington University, 1942;  
Wittenberg College, 1943. Asheville, N. C.
- Wilson, Hugh Dorsey  
A.B., University of Georgia, 1943. Abbeville, Ga.
- Windes, William Sidney  
Wake Forest College, 1939-1942;  
Wake Forest Law School, January-May 1946. Raleigh, N. C.
- Xanthos, John Dimitrius  
Wake Forest College, 1935-1937. Wilmington, N. C.

## MASTER OF LAWS

- Daniel, William Wright  
B.B.A., Emory University, 1943;  
L.L.B., Mercer University, 1947. Eastman, Ga.



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|--|---------------------|
| Dunham, Frank Rittenhouse                | Richmond, Va.       |
| A.B., University of Virginia, 1941;      |                     |
| LL.B., Duke University, 1946.            |                     |
| Gurney, Edward John, Jr.                 | Dallas, Pa.         |
| B.S., Colby College, 1935;               |                     |
| LL.B., Harvard University, 1938.         |                     |
| Hart, Earl Thomas                        | Youngsville, N. C.  |
| Wake Forest College, 1935-1938;          |                     |
| LL.B., Wake Forest College, 1941.        |                     |
| Snyder, William Lafayette                | New Tazewell, Tenn. |
| A.B., Lincoln Memorial University, 1933; |                     |
| LL.B., University of Tennessee, 1947.    |                     |





# Duke University School of Law

Publishes

## Law and Contemporary Problems

Each issue of this publication is devoted to a symposium exploring not only the legal but also the economic and other social-science aspects of current problems that cross the lawyer's desk.

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Trade-Marks in Transition  
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Delivered Price Systems

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## Law and Contemporary Problems

DUKE STATION

DURHAM, N. C.





VOLUME 21

March, 1949

NUMBER 5-B

# BULLETIN OF DUKE UNIVERSITY

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*College of Engineering*



1948-1949

ANNOUNCEMENTS FOR 1949-1950

PUBLISHED BY THE UNIVERSITY

DURHAM, NORTH CAROLINA

## ANNUAL BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE COLLEGE OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF LAW, apply to *The Dean of the School of Law*, Duke University, Durham, N. C.

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For BULLETIN OF THE SCHOOL OF NURSING, apply to *The Dean of the School of Nursing*, Duke University, Durham, N. C.

For BULLETIN OF THE DIVINITY SCHOOL, apply to *The Dean of the Divinity School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF FORESTRY, apply to *The Dean of the School of Forestry*, Duke University, Durham, N. C.

For BULLETIN OF THE SUMMER SESSION, apply to *The Director of the Summer Session*, Duke University, Durham, N. C.

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BULLETIN  
OF  
DUKE UNIVERSITY



COLLEGE OF ENGINEERING

1948-1949  
ANNOUNCEMENTS FOR 1949-1950

DURHAM, NORTH CAROLINA

1949



ENGINEERING BUILDING

## CALENDARS OF THE COLLEGES

1949

- Sept. 15 Thursday, 9:00 A.M.—Dormitories open to freshmen.
- Sept. 15 Thursday, 7:30 P.M.—Assembly for all entering freshmen; Freshman Orientation Program begins.
- Sept. 19 Monday—Registration and matriculation of new students with advanced standing—Trinity College and the College of Engineering.
- Sept. 20 Tuesday—Registration and matriculation of new students with advanced standing, Woman's College.
- Sept. 21 Wednesday, 11:00 A.M.—Formal opening of the Colleges.
- Sept. 22 Thursday—Instruction begins.
- Nov. 12 Saturday—Last day for reporting mid-semester grades.
- Nov. 24 Thursday—Thanksgiving Day: a holiday.
- Dec. 11 Sunday—Founders Day.
- Dec. 20 Tuesday, 5:00 P.M.—Christmas recess begins.

1950

- Jan. 4 Wednesday, 8:00 A.M.—Instruction is resumed.
- Jan. 18 Wednesday—Mid-year examinations begin.
- Jan. 28 Saturday—Mid-year examinations end.
- Jan. 30 Monday—Registration and matriculation of new students.
- Jan. 31 Tuesday—Last day for matriculation for second semester.
- Feb. 1 Wednesday—Second semester begins.
- March 16 Thursday—Last day for reporting mid-semester grades.
- March 25 Saturday, 12:30 P.M.—Spring vacation begins.
- April 3 Monday, 8:00 A.M.—Instruction resumed.
- April 18 Tuesday—Last day for submitting orations for Wiley Gray contest.
- May 9 Tuesday—Earliest date for beginning of Honors examination.
- May 22 Monday—Final examinations for second semester begin.
- June 1 Thursday—Final examinations end.
- June 3 Saturday—Commencement begins; Senior Class Day; meeting of the Board of Trustees.
- June 4 Sunday—Commencement Sermon.
- June 5 Monday—Commencement Address; Graduating Exercises.



## ADMINISTRATIVE OFFICERS

---

ARTHUR HOLLIS EDENS, B.Ph., A.M., M.P.A. <i>President of the University</i>	West Campus
ROBERT LEE FLOWERS, A.M., LL.D. <i>Chancellor of the University</i>	West Campus
WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D. <i>Vice-Chancellor of the University</i>	West Campus
PAUL MAGNUS GROSS, B.S., A.M., Ph.D. <i>Vice-President in the Educational Division</i>	Hope Valley
WILLIAM HOLLAND HALL, A.B., A.M., B.C.E., M.S.C.E. <i>Dean, College of Engineering</i>	922 Urban Avenue
ALAN KREBS MANCHESTER, A.B., A.M., Ph.D. <i>Dean of Freshmen</i>	Myrtle Drive

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## INSTRUCTIONAL STAFF

HAROLD CRUSIUS BIRD, Ph.B., C.E. <i>Professor of Civil Engineering, Chairman, Department of Civil Engineering</i>	1209 Virginia Avenue
WILLIAM HOLLAND HALL, A.B., A.M., B.C.E., M.S.C.E. <i>Professor of Engineering</i>	922 Urban Avenue
WALTER JAMES SEELEY, E.E., M.S. <i>Professor of Electrical Engineering, Chairman, Department of Electrical Engineering</i>	1005 Urban Avenue
RALPH SYDNEY WILBUR, B.S. in M.E., M.E. <i>Professor of Mechanical Engineering, Chairman, Department of Mechanical Engineering</i>	1018 Demerius Street
F. KENT BOUTWELL, B.S. in M.E. <i>Instructor in Mechanical Engineering</i>	618 Ruby Street
CHANDLER WILCOX BROWN, B.S. in C.E. <i>Instructor in Civil Engineering</i>	Duke University
ROGER G. DAVIS <i>Visiting Instructor in General Engineering (Part-time)</i>	R. D. No. 1 Durham
FRANK NICHOLAS EGERTON, A.B., A.M., E.E. <i>Assistant Professor of Electrical Engineering</i>	411 N. Gregson Street
WILLIAM MARVIN HARDY, B.S. in M.E. <i>Instructor in Mechanical Engineering</i>	1919 Club Boulevard
HOWARD N. HAINES, B.S. <i>Assistant Professor of Engineering Drawing</i>	2307 Club Boulevard
MARVIN THOMAS HATLEY, JR., B.S. in E.E. <i>Instructor in Electrical Engineering</i>	Duke University
RAY WALTER HOLLAND, B.S. in M.E. <i>Instructor in Mechanical Engineering</i>	600 Colgate Street
HENRY HUNTER JONES, A.B., C.E. <i>Visiting Assistant Professor of General Engineering</i>	129 Pinecrest Road

VAN LESLIE KENYON, B.S. in M.E. <i>Assistant Professor of Mechanical Engineering</i>	Hillsboro, N. C.
EDWARD K. KRAYBILL, B.S. in E.E., M.S.E. <i>Assistant Professor of Electrical Engineering</i>	900 Dacian Avenue
RALPH E. LEWIS, B.S. in M.E., M.S. in M.E. <i>Assistant Professor of Mechanical Engineering</i>	1308 Markham Avenue
VANCE BACON MARTIN, B.S. in E.E. <i>Instructor in Electrical Engineering</i>	Hillsboro, N. C.
RALPH PIERPONT MORGAN, JR., B.S. in M.E. <i>Instructor in Mechanical Engineering</i>	910 Sixth Street
OTTO MEIER, JR., B.S. in E.E., M.S., E.E. <i>Associate Professor of Electrical Engineering</i>	916 Monmouth Avenue
AUBREY E. PALMER, B.S. in Engr., C.E. <i>Assistant Professor of Civil Engineering</i>	2519 State Street
DAVID RABIN, B.S. in M.E. <i>Visiting Instructor in Mechanical Engineering (Part-time)</i>	2014 Bivins Street
FREDERICK JEROME REED, M.E., M.S. <i>Associate Professor of Mechanical Engineering</i>	2203 Englewood Avenue
GRIMES GIBBONS SLAUGHTER, B.S. in E.E. <i>Instructor in Electrical Engineering</i>	Duke University
WILLIAM BREWSTER SNOW, B.S. in C.E., M.S., Sc.D. <i>Associate Professor of Civil Engineering</i>	1022 West Trinity Avenue
CHARLES ROWE VAIL, B.S. in E.E., M.S. (E.E.) <i>Assistant Professor of Electrical Engineering</i>	900 Dacian Avenue
JESSE HOLLAND WILDER, B.S. in M.E., M.S. <i>Instructor in Civil Engineering</i>	Duke University
*JAMES WESLEY WILLIAMS, A.B., B.S. in C.E. <i>Assistant Professor of Civil Engineering</i>	206 Swift Avenue
<hr/>	
JOSEPH PHILIP EDWARDS <i>Laboratory Technician in Electrical Engineering</i>	1604 B Street

Instruction in Non-Engineering subjects is given by members of the General Faculty listed in the Bulletin of Undergraduate Instruction.

### COUNCIL OF THE COLLEGE OF ENGINEERING

Vice-President in the Educational Division, P. M. GROSS.

Dean, W. H. HALL.

Civil Engineering, H. C. BIRD, W. B. SNOW.

Electrical Engineering, W. J. SEELEY, OTTO MEIER, JR.

Mechanical Engineering, R. S. WILBUR, F. J. REED.

Physics, C. C. HATLEY.

English, G. C. HARWELL.

Mathematics, J. J. GERGEN.

\* Absent on sabbatical leave, 1948-1949.

## GENERAL STATEMENT

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Duke University, through the College of Engineering, offers standard four-year courses in Civil, Electrical, and Mechanical Engineering. In addition to the technical subjects leading to professional engineering work, correlated instruction is given in English, economics, mathematics, chemistry, physics, history, and non-technical electives.

### ACCREDITING

The Engineers' Council for Professional Development has accredited the Duke University College of Engineering in all three of its curricula—Civil, Electrical, and Mechanical Engineering. The ultimate authority of the engineering profession on educational standards, the Council represents the five major professional engineering societies of national scope and the state boards of engineering examiners. In addition, the three curricula of the College of Engineering are approved by the Regents of the State of New York and by other national and regional accrediting groups.

By this accrediting Duke engineering graduates are assured of full recognition of their educational background, both in admission to professional organizations and in the issuance of licenses for professional practice.

### FACULTY

The members of the Instructional Staff are men of recognized professional competence who have been chosen particularly for their ability to teach. Instruction is given in small sections in order to provide personal attention for each student.

### HISTORY

Instruction in engineering subjects began at Duke University in 1887, and work leading to a major in engineering has been offered uninterruptedly since 1903.

Separate departments in civil and electrical engineering were established in 1927; instruction in mechanical engineering began in 1930. This arrangement led in 1937 to the establishment of the Division of Engineering, which included the separate Departments of Civil, Electrical, and Mechanical Engineering. In 1939 the Division composed of these three Departments was incorporated into the University structure as the College of Engineering, one of the three undergraduate colleges of Duke University. Through the College of Engineering, Duke University now offers the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering.

### PHYSICAL PLANT

A further step in the evolution of engineering instruction at Duke University was completed when the College of Engineering first occupied

a new physical plant in January, 1948. This structure is on the West Campus in a setting of tall pines apart from the Main Quadrangle and yet within a few hundred feet of the Duke Chapel tower. Unlike the Gothic buildings of the Main Quadrangle, the Engineering Building is of Georgian Colonial style, with red brick façade and white stone trim.

This E-shaped building houses the entire College of Engineering, with the exception of the aeronautical laboratory and shops. It has a total volume of 1,200,000 cubic feet and provides a floor area of 70,000 square feet. Each of the three wings houses the laboratories and the specialized classrooms of one of the three engineering departments. The main portion of the building has offices, classrooms, and other general facilities.

### GENERAL FACILITIES

Provided in the Engineering Building for the use of all three departments of engineering are a number of general facilities.

**Library:** The Engineering Library contains a growing collection of approximately 10,000 volumes on engineering and closely related subjects, and in addition subscribes to approximately 150 periodicals, of which 110 are bound each year. The well-lighted reading room has seating accommodations for 48 students. Engineering students also have full access to the University Library, to the Woman's College Library, and to the various specialized departmental libraries.

**Lecture Room:** An attractively decorated lecture room seating 216 people permits audio-visual instruction of large groups.

**Classrooms:** There are nine well-lighted classrooms seating an average of 30 students per room.

**Drafting Rooms:** Five drafting rooms that accommodate an average of 30 students each facilitate work in the various courses in which graphic methods are taught and employed.

**Mimeographing and Blue-Printing:** A special room is furnished with equipment for reproducing printed matter and diagrams by either mimeographing, blue-printing, or white-printing.

**Photographic Dark Room:** In a separate room are facilities for processing a wide variety of photographic material used to supplement course instruction.

**Student Lounge:** A convenient lounge is provided for the use of students.

**Engineering Publications Room:** The staff of the *Duke Engineer*, official student-published magazine of the College of Engineering, has its headquarters in the building.

**Conference Room:** A special room is furnished for conference work by faculty committees and for student interviews with visiting industrial personnel representatives.

**Departmental Computation Rooms:** Each department maintains its own computation rooms adjacent to the various departmental laboratories.

**Departmental Workrooms:** Each department maintains its own workroom for staff use.



## GENERAL REGULATIONS

### ADMISSION TO THE COLLEGE OF ENGINEERING

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Committee on Admissions has received his scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant, since it would enable him to acquaint himself with the facilities of the University and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculating.

*All correspondence relating to admission of men should be addressed to the Secretary of Duke University, Duke Station, Durham, N. C.*

### GENERAL REQUIREMENTS

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English .....	4	Botany .....	1
Latin .....	4	Zoology .....	1
Greek .....	3	General Biology .....	1
German .....	3	Physical Geography .....	1
French .....	3	General Science .....	1
Spanish .....	3	Agriculture .....	2
Mathematics .....	4	Mechanical Drawing .....	2
History and Civics .....	4	Woodworking, Forging, and	
Physics .....	1	Machine Work .....	2
Chemistry .....	1	Household Economics .....	2
		Commercial Subjects .....	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.



**ADMISSION BY CERTIFICATE**

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be made out properly on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least ten of the fifteen units required for admission must come from the following:

*Required Units*

English .....	3 units
*A Foreign Language .....	2 units
Physical Science .....	1 unit
History .....	1 unit
Algebra .....	1½ units
Plane Geometry .....	1 unit
**Solid Geometry .....	½ unit

*Elective Units*

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra .....	½ unit
Trigonometry .....	½ unit
†German or French or Latin or Spanish or Greek .....	1 to 4 units
History or Civics (not the required unit) .....	1 to 3 units
Physics or Chemistry or Biology (not the required unit) .....	1 to 3 units

**ADMISSION BY EXAMINATION**

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics, and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

**ADMISSION TO ADVANCED STANDING**

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

\* Any deficiency in this requirement may be made up before graduation.

\*\* Any deficiency in this requirement shall be made up before the beginning of the sophomore year.

† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not, during their first semester, elect more than the minimum number of hours required of the class which they enter except by permission of the Dean of Engineering.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of C or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 additional for the privilege of matriculating.

### **FRESHMAN WEEK**

The week immediately preceding the opening of college is set aside for the induction of freshmen. During this period health examinations, psychological tests, and placement tests in English and mathematics are given. Sectioning in these two subjects is based on the grade made on the placement tests. The freshmen are divided into groups for instruction in the use of the library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all freshmen.

### **SPECIAL STUDENTS**

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

### **GENERAL ACADEMIC REGULATIONS**

The College of Engineering operates on the two-semester plan: the autumn semester and the spring semester begin and close in accordance with the published calendar of this bulletin.

It is important that all students be present on the first day of the session; those who are late incur the penalties described in the Undergraduate Bulletin under the topics "Admission to College" and "Course Cards." Students who enter after the beginning of the semester are marked absent from classes to which they have been assigned, and these absences carry the same penalty as other absences.

### **DEFINITION OF CREDIT**

The unit of credit used in computing class standing is the semester hour, which signifies one recitation a week throughout the semester. Three hours of laboratory work are equivalent to one hour of classwork.

Two semesters of seventeen weeks each constitute the academic year.

### **EXPLANATION OF QUALITY-POINT SYSTEM**

The requirements for the degree are computed not only in semester hours but also in quality points. Quality points are the points earned

by a student on the basis of his grades: for an A three quality points per semester hour; for a B two quality points per semester hour; for a C one quality point per semester hour; for a D no quality points. Credit for 148 quality points is required for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering.

#### RESIDENCE REQUIREMENT

All candidates for engineering degrees are required to take the work of the senior year (a minimum of 36 semester hours) in residence. Senior work is defined as comprising, in each curriculum, those courses outlined in the Bulletin for the senior year of that curriculum.

#### SENIOR WORK

A candidate for the Bachelor of Science degree in any one of the branches of engineering, regardless of his average grade in preceding years, must, in order to be eligible for graduation, complete his senior work as defined in the preceding paragraph with a minimum average grade of C.

#### ASSEMBLY AND CLASS MEETINGS

Regular meetings of the Sophomore, Junior, and Senior Classes of the College of Engineering are held according to their respective schedules. Meetings of the Freshman Class are held weekly.

Attendance upon these class meetings is compulsory.

#### OTHER REGULATIONS

See the *Undergraduate Bulletin* for the regulations concerning class attendance and absences, grades, exclusion for failure, scholastic requirements for participation in athletic and other organizations, etc.

# THE DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

The studies in the College of Engineering are designed for students who are preparing for civil, electrical, or mechanical engineering as a profession. These studies lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E. All curricula of the College are fully accredited by the Engineers' Council for Professional Development.

## UNIFORM REQUIREMENTS

Each of these degrees requires 148 semester hours of work, four of which are in physical education. A student must have at least a C average both for the entire program and in his senior year.

Besides the courses in their special fields, the three departments of the College—the Civil, the Electrical, and the Mechanical—require (1) a uniform program during the student's first year and (2) supplementary work in general courses throughout his last three years. The uniform freshman program and the general courses are listed below. The special program of each department is given in the section of this bulletin devoted to the specific department.

## UNIFORM FRESHMAN YEAR

FIRST SEMESTER				SECOND SEMESTER			
			S.H.				S.H.
Math 5	College Algebra	.....	3	Math 50	Analytic Geometry	.....	3
Math 6	Trigonometry	.....	3	Math 51	Calculus I	.....	3
Chem 1	Chemistry	.....	4	Chem 2	Chemistry	.....	4
Eng 1	English Composition	....	3	Eng 2	English Composition	....	3
Hist E1	History	.....	3	Hist E2	History	.....	3
G.E. 1	Drawing	.....	2	G.E. 2	Drawing	.....	2
	Physical Education	.....	1		Physical Education	.....	1
			19				19

## GENERAL COURSES OF INSTRUCTION

### ENGINEERING SUBJECTS

**1-2. Engineering Drawing.**—The study of mechanical drawing with emphasis on drawing parts; elementary machines, dimensioning, and working drawings; pencil and ink technique, elementary drawing board geometry, including point, line and plane relations, and elementary work in developments and intersections. **4 s.h.** STAFF

**5. Descriptive Geometry.**—The study of drawing board problems involving point, line, and plane relationships; development of solids; intersections of solids and concurrent non-coplanar forces, with emphasis on practical applications. **2 s.h.** STAFF

**57. Statics.**—Concurrent forces, parallel forces, nonconcurrent and non-parallel forces, centroids, friction, moment of inertia. Prerequisite: course G.E. 1-2. Mathematics 52 concurrent. **3 s.h.** STAFF



**58. Dynamics.**—Translation, rotation, work, energy, and momentum. Prerequisites: courses G.E. 57, and Mathematics 52. 3 s.h. STAFF

**107. Strength of Materials.**—Elastic bodies under stress; flexure of simple, overhanging, fixed, and continuous beams; columns; combined stresses, etc. For Civil Engineering students, the laboratory work is included in course C.E. 118. Other students should take course G.E. 109 for laboratory. Prerequisite: course 57. 3 s.h. STAFF

**109. Strength of Materials Laboratory.**—Concurrent with course G.E. 107. 1 s.h. Either semester. STAFF

**128. Hydraulics.**—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course G.E. 57. 3 s.h. Either semester. STAFF

### REQUIRED NONENGINEERING SUBJECTS

**Chem. 1-2. General Inorganic Chemistry.**—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. One lecture, two recitations, and three laboratory hours, throughout the year. 8 s.h.

**Econ. 51-52. Principles of Economics.**—For sophomores. 6 s.h.

**Eng. 1-2. English Composition.**—All freshmen are required to take course 1 and course 2. 6 s.h.

**Eng. E113. Advanced Composition for Engineers.**—Designed for achieving effectiveness in writing reports, descriptions, technical investigations, etc. Open to juniors and seniors. 3 s.h.

**Eng. 151.—Essentials of Public Speaking.**—A basic course in public speaking designed to give the poise and confidence necessary to think and speak freely before an audience. Particular attention is paid to the gathering and organization of speech materials and to oral presentation. 3 s.h.

**Engineering History 1-2. The United States in the World Today.**—This course is designed for students in the College of Engineering. Topics treated in the first semester are: the rise of national states in Western Europe and other circumstances attending the discovery and settlement of the New World; the foundation of American institutions; the establishment of the Federal Republic; the frontier, the westward movement, and contemporary international developments; the Civil War; the growth of industry and its influence on society; the Spanish-American War and the emergence of the United States as a world power. In the second semester the emphasis is on the growing interdependence of the Western Nations in the twentieth century; their influence throughout the world; the participation of the United States in the World Wars, and the resultant problems of today. 6 s.h.

**Math. 2. Plane Trigonometry.**—Logarithms, right and oblique triangles, radian measure, graphs of trigonometric functions, inverse trigonometric functions, trigonometric identities and equations, complex numbers. This course and Mathematics 5 may be taken concurrently. Prerequisite: Mathematics 1, or one and one-half units in algebra and one unit in geometry. 3 s.h.

**Math. 5. College Algebra.**—Advanced topics in quadratic equations, systems involving quadratics, variation, binomial theorem, progressions, inequalities, theory of equations, permutations, and combinations, probability, determinants, partial fractions. This course and Mathematics 2 may be taken concurrently. Prerequisite: Mathematics 1, or one and one-half units in algebra and one unit in geometry. 3 s.h.



**Math. 50. Plane Analytic Geometry.**—Rectangular and polar coordinates, loci, straight lines, conic sections. This course and Mathematics 51 may be taken concurrently. Prerequisites: Mathematics 2 and 5. 3 s.h.

**Math. 51. Calculus I.**—Differentiation of elementary functions, curve tracing, maxima and minima, motion. Must be preceded or accompanied by Mathematics 50. 3 s.h.

**Math. 52. Calculus II.**—Integration of elementary functions, areas, solids of revolution, length of arc, surfaces of revolution, centroids, moments of inertia, pressure, curvature, indeterminate forms. Prerequisite: Mathematics 51. 3 s.h.

**Math. 53. Calculus III.**—Introduction to solid analytic geometry, partial differentiation, multiple integrals, series, introduction to differential equations. Prerequisite: Mathematics 52. 3 s.h.

**Math. 131. Elementary Differential Equations.**—Solution of elementary types; formation and integration of equations arising in applications. Prerequisite: Mathematics 52. 3 s.h.

**Phys. 51-52. General Physics.**—This course treats the basic principles of general physics in a more quantitative manner than Physics 1-2. It is designed for sophomores and juniors and meets in a thorough way the requirements for entrance into the study of either medicine or engineering and is well suited for the general science student. A limited number of freshmen who present physics for entrance and who are taking the required mathematics concurrently may be admitted by permission of the instructor. This course is not open for credit for students who have taken Physics 1-2. Four lecture-recitations and one three-hour laboratory period each week. Prerequisite: Mathematics 2-5 or equivalent (Mathematics 5 may be taken concurrently). 10 s.h.

## **DEPARTMENT OF CIVIL ENGINEERING**

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The work of a civil engineer may be divided into four major fields: sanitation—dealing with water works, sewerage systems, and garbage disposal; hydraulics—dealing with flood control, river improvements, irrigation, drainage, and water power; transportation—dealing with railroads, highways, airports, waterways, park systems, traffic control, and city planning; structures—dealing with bridges, buildings, foundations, dams, tunnels, tanks, bins, and various industrial structures. The concern of a civil engineer is primarily with design and construction, although often his responsibility includes maintenance. His undergraduate education comprises scientific, technical, civic, and cultural subjects. In order that he may become qualified to assume responsible charge of engineering work, he should supplement this instruction with progressive study after he graduates and while he is securing his practical experience.

### **HIGHWAY MATERIALS**

Complete equipment is available for the preparation and routine testing of aggregates, cement, and bituminous materials. There is also a Hubbard stability machine for additional tests.

### **SANITARY ENGINEERING**

In the sanitary laboratory there is complete equipment for performing the physical, chemical, bacteriological, and microscopic tests as outlined by the American Public Health Association. Different types of water current meters are available for work in stream gauging.

### **SURVEYING**

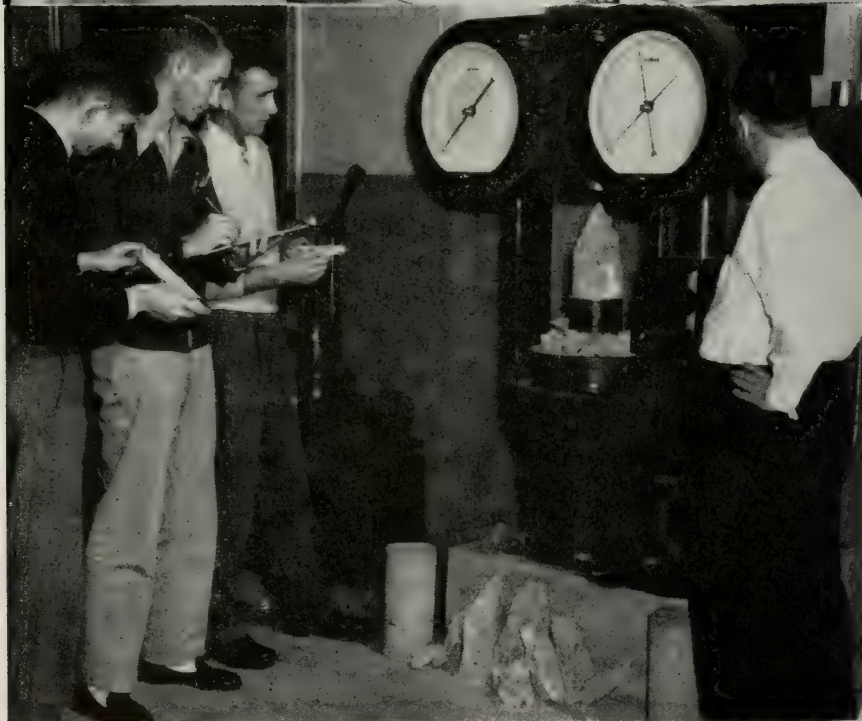
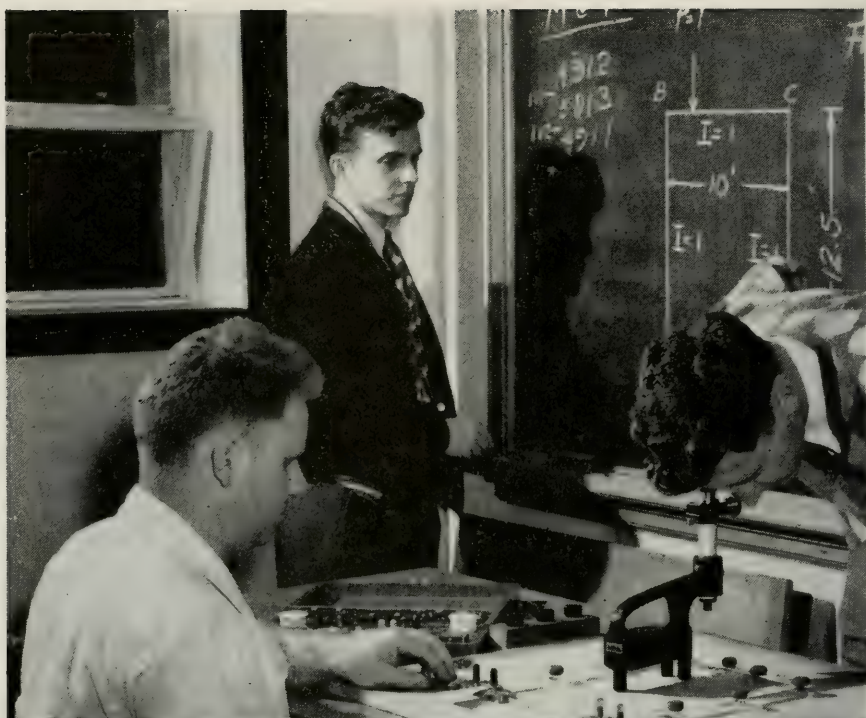
The department has an unusually modern and representative collection of transits, levels, plane tables, accessory equipment, as well as a precise level and theodolite.

### **CIVIL ENGINEERING DRAFTING ROOM**

A special drawing room has been set aside for upperclassmen in civil engineering. The room is specially illuminated with fluorescent lights and has properly conditioned two-toned walls to relieve eye strain. Filing cabinets for storing each student's equipment, eight large-sized universal drafting machines, numerous smaller-sized ones, planimeters, curves, and other accessories are readily available. A lavatory is conveniently located in the room.

### **STRESS LABORATORIES**

For advanced instruction in stress analysis there are various polariscopes with facilities for taking and developing pictures, large-sized Begg's deformeter, loading frames, and miscellaneous tools for preparing accurate



DEPARTMENT OF CIVIL ENGINEERING

models for testing. Electric calculating machines are to be found in an adjoining room so that the students may more readily compare calculated and experimental results.

### CEMENT AND CONCRETE TESTING

For the testing of cement, fine and coarse aggregates, and concrete, two rooms and an adjoining closet are provided, the closet being equipped with temperature and moisture control. In addition to the small accessories there is an automatic shot-testing briquette machine, flow table, Ro-tap shaker, steam baths, unit weight measures, capping devices, special equipment for making the flexural test, as well as a new 300,000-pound hydraulic compression machine.

### SOIL TESTING

For the classification of soils there is standard equipment for finding the liquid limit, plastic limit, shrinkage limit, field moisture equivalent, centrifuge moisture equivalent, specific gravity, sieve analysis using Ro-tap shaker, and hydrometer analysis using a constant temperature bath. In making foundation studies, permeability is measured by constant and variable head permeameters and by horizontal capillarity; shearing values are determined by unconfined compression tests, four modern shear machines as well as by two triaxial shear machines; bearings values are found by the Proctor and California bearing tests; consolidation and settlement forecasts are made from data secured on three consolidation machines. New laboratory tables will accommodate twenty students. Drying racks, electric ovens, and other accessories of the latest types are to be found in this laboratory. Adjacent to the main laboratory are two smaller rooms available for research work in soils.

### MATERIALS LABORATORY

This laboratory is equipped to give instruction in the basic principles of stress and strain and for the testing of structural members. Its facilities are adequate for both graduate and undergraduate instruction. Included in this laboratory are three universal testing machines with capacities from 5,000 to 150,000 pounds; various hardness testers; machines for torsion, fatigue, and impact; calibration apparatus; and a variety of modern strain gauges of direct acting mechanical and electric-resistance types.

## PROGRAM OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

For the uniform freshman program see page 12.

### *Sophomore Year*

FIRST SEMESTER			SECOND SEMESTER		
		S.H.			S.H.
Math 52	Calculus II .....	3	Math 53	Calculus III .....	3
Phys 51	Physics .....	5	Phys 52	Physics .....	5
Econ 51	Economics .....	3	Econ 52	Economics .....	3
G.E. 57	Statics .....	3	G.E. 107	Strength of Materials ...	3
C.E. 61	Surveying .....	4	C.E. 62	Surveying .....	4
	Physical Education .....	1		Physical Education .....	1
		<hr/> 19			<hr/> 19



*Junior Year*

Eng 113	Advanced Composition ..	3	Eng 151	Public Speaking .....	3
G.E. 58	Dynamics .....	3	G.E. 128	Hydraulics .....	3
C.E. 131	Structures .....	5	C.E. 132	Structures .....	5
C.E. 113	Route Surveying .....	3	C.E. 118	Materials .....	3
E.E. 123	Electric Circuits .....	4	E.E. 124	Electric Machinery .....	4
				<hr/>	<hr/>
				18	18

*Senior Year*

C.E. 123	Sanitary Engineering ...	4	C.E. 124	Sanitary Engineering ...	3
C.E. 135	Soils .....	3	C.E. 116	Highways .....	3
C.E. 133	Reinforced Concrete ....	4	C.E. 140	Indeterminate Structures	3
M.E. 103	Heat Power .....	3	C.E. 144	Projects .....	2
M.E. 115	Mech. Eng. Laboratory 1		M.E. 104	Heat Power .....	3
	Elective (Non-Technical) .....	3	M.E. 116	Mech. Eng. Laboratory 1	
				Elective (Non-Technical) .....	3
				<hr/>	<hr/>
				18	18

## COURSES OF INSTRUCTION

PROFESSORS BIRD AND HALL; ASSOCIATE PROFESSOR SNOW; ASSISTANT PROFESSORS JONES, LEWIS, PALMER AND WILLIAMS; MESSRS. BROWN, DAVIS, WILDER

**61. Plane Surveying.**—Use of instruments; transit, stadia and compass surveying; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, departures and areas; methods of plotting; survey and plot of portions of campus by stadia, and transit and tape; care and adjustment of instruments. Prerequisites: G.E. 1 and trigonometry. **4 s.h.** MR. BROWN

**62. Advanced Surveying.**—Simple triangulation; topographic surveying using stadia and plane table; laying out and division of land; public land system; calculations; grading plans and quantities; determination of azimuth by H.O. 211. Prerequisite: course 61. **4 s.h.** MR. BROWN

**S110. Plane Surveying.**—A modification of course 61 especially for students in Forestry. See *Bulletin of Summer Session*. **3 s.h.** STAFF

**113. Route Surveying.**—Thorough drill in the calculation and laying out of simple, compound, and easement curves; widening of curves; vertical curves; setting slope stakes; ordinary earthwork computations and mass diagrams. Prerequisite: course 61. **3 s.h.** ASSISTANT PROFESSOR WILLIAMS

**116. Highway Engineering.**—Location, design, construction and maintenance of highways and city streets; soil stabilization; traffic studies; economics of planning and design. Prerequisites: courses 113, 135. **3 s.h.** ASSISTANT PROFESSOR WILLIAMS

**118. Materials of Engineering.**—Study and testing of materials commonly used in civil engineering; proportioning concrete. Prerequisite: course G.E. 107 or concurrent. **3 s.h.** ASSISTANT PROFESSOR WILLIAMS

**123. Water Supply and Sewage.**—Statistical analysis of rainfall and run-off records; population estimation; analysis of the yield of watersheds and storage requirement; design of water distribution systems; design of sanitary and storm sewerage systems. Prerequisite: course G.E. 128. **4 s.h.** ASSOCIATE PROFESSOR SNOW



**124. Water Purification and Sewage Treatment.**—Chemical and bacteriological analysis of water and sewage effluents; design of water purification treatment systems; design of sewage treatment plants. Prerequisite: course C.E. 123. 3 s.h. ASSOCIATE PROFESSOR SNOW

**131. Structures.—Analysis and Elementary Design.**—Stresses in roofs, parallel and inclined chord bridges, including sub-divided panels, by algebraic and graphic methods under all conditions of loading; shear and moments in frames and bents; influence lines; Williot diagram. Structural drafting; details in steel and wood; methods of fabrication and erection. Prerequisites: courses G.E. 57, 107. 5 s.h. ASSISTANT PROFESSOR PALMER

**132. Structures.—Design.**—Tension, compression, flexural members, end posts, eccentric connections, unsymmetrical bending; riveted and welded plate girders; trusses and office building frames; wind analysis. Design and detail drawings. Prerequisite: course 131. 5 s.h. ASSISTANT PROFESSOR PALMER

**133. Reinforced Concrete.**—Theory and design of reinforced concrete beams, slabs, and columns including eccentric loads; footings; retaining walls. Prerequisite: course G.E. 107. 4 s.h. PROFESSOR BIRD

**135. Soil Mechanics.**—Identification and classification; flow nets; frost action; stability of foundations, cuts and embankments, and retaining walls; settlement. Laboratory includes identification, permeability, shear, unconfined compression, consolidation and compaction tests. Prerequisite: course G.E. 107. 3 s.h. PROFESSOR BIRD

**137-138. Seminar.**—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. 2 s.h. [Not offered in 1949-50] STAFF

**140. Indeterminate Structures.**—Application of least work, slope deflection, moment distribution, and column analogy. Analytic, graphic, and experimental methods are used. Prerequisites: courses 131, 133. 3 s.h. PROFESSOR BIRD

**143-144. Projects in Civil Engineering.**—This course may be assigned by the Chairman of the Department to certain seniors who have shown an aptitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. 2-6 s.h. STAFF

## DEPARTMENT OF ELECTRICAL ENGINEERING

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The field of electrical engineering enters into every form of industry and public service where power is utilized, intelligence is transmitted, and precise control is exercised over physical, chemical, or mechanical operations. The field of electrical engineering includes the generation, transmission, distribution, and utilization of electric power; communications, embracing telegraphy, telephony, radio, television, and radar; illumination; electric transportation; and industrial processes and their control. In any one of these varied fields the electrical engineer may engage in work which ranges from highly technical and specialized research and design to manufacturing, maintenance, sales, and administration. As a result of these broad professional demands, the curriculum in electrical engineering has been designed to provide a solid foundation of basic science and fundamental training in the field of electricity, as well as to provide the introduction to humanistic studies which is required of all engineering students at Duke.

The laboratory facilities of the Department of Electrical Engineering are distributed among various specialized rooms of the electrical engineering wing of the Engineering Building.

### THE ELECTRIC CIRCUITS LABORATORY

This laboratory is equipped with all necessary instruments and devices for carrying out experiments on direct-current and power-frequency alternating-current electric circuits and magnetic circuits. Oscillographs are provided for viewing and photographing both steady-state non-sinusoidal waves and transients. A harmonic generator permits the synthesis of non-sinusoidal waves in both single-phase and polyphase circuits.

### THE ELECTRICAL MEASUREMENTS LABORATORY

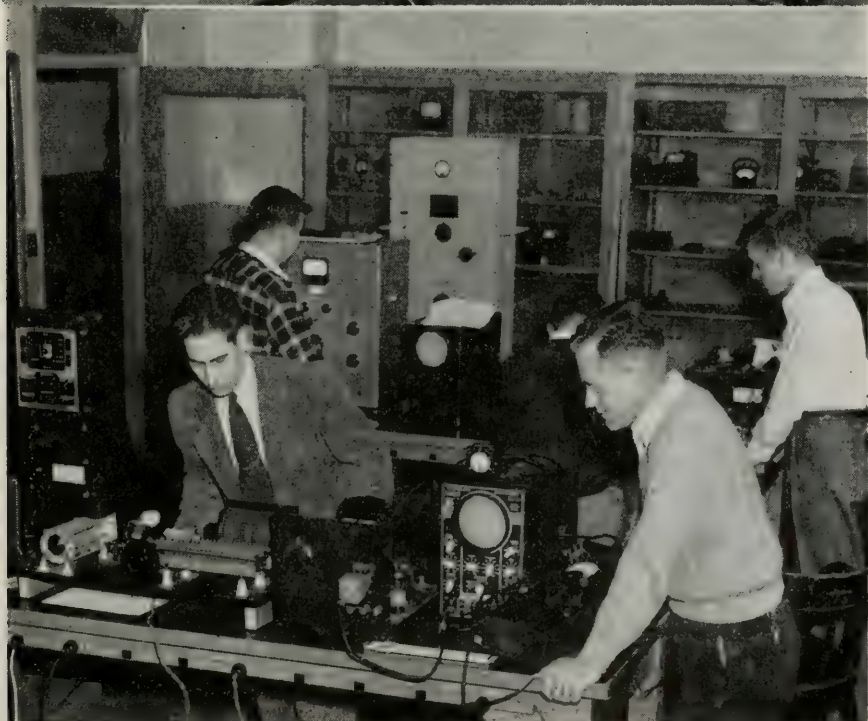
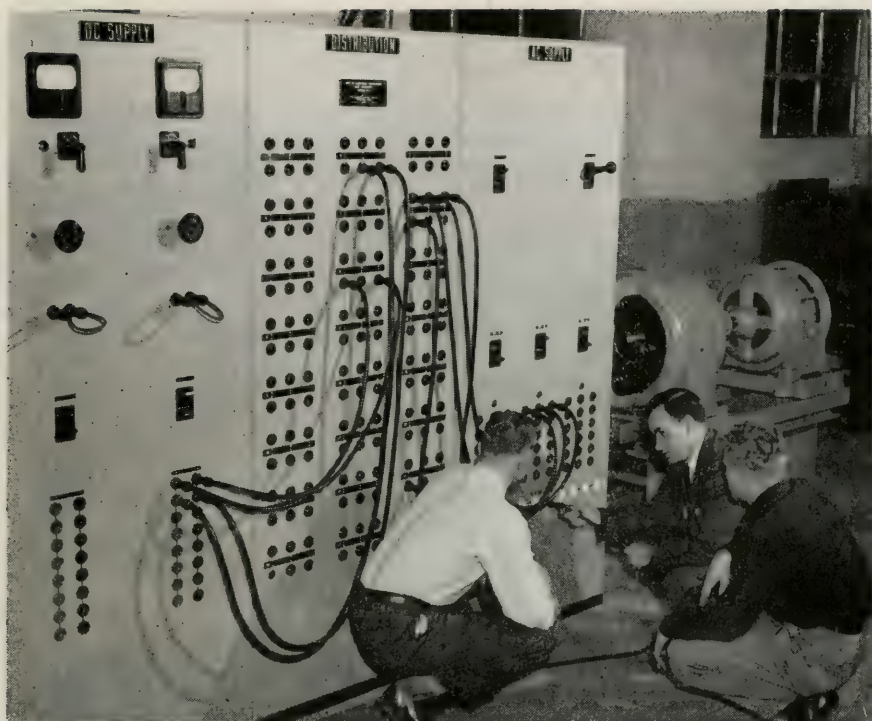
Facilities are provided in this laboratory for studying the principles and techniques of measuring electrical quantities throughout the entire frequency spectrum, from direct current and power frequencies through audio and radio frequencies. Instruments of both the indicating and recording types, d-c and a-c bridges, and associated apparatus are included.

### THE ELECTRONICS LABORATORY

The equipment of this laboratory makes possible studies of the physical behavior of high-vacuum and gas-filled electronic tubes and their associated circuits. Included are power-supply units, vacuum-tube voltmeters, oscillators, amplifiers, sweep-circuit generators, cathode-ray oscilloscopes, and a wide variety of electronic tubes.

### THE ELECTRIC MACHINERY LABORATORY

The electric machinery laboratory contains a wide variety of direct-current and single-phase and polyphase alternating-current electric machines, and associated apparatus for loading and testing these machines.



DEPARTMENT OF ELECTRICAL ENGINEERING



Equipment includes a number of a-c to d-c and d-c to d-c motor-generator sets, a sine-wave generator, a synchronous converter, an ignitron rectifier, a phase-displacement dynamometer, numerous constant-potential transformers, a constant-current transformer, a high-current testing transformer, induction regulators, a variety of representative d-c and a-c motors and generators, a large selection of fractional-horsepower motors, numerous loading devices, oscillographs, and complete stock of other indicating, recording, and graphic measuring instruments.

#### **THE COMMUNICATIONS LABORATORY**

Complete equipment for the performance of experiments and for all but the most precise measurements in the audio and radio-frequency ranges is provided in this laboratory. Typical of the experiments performed by students with this equipment are: harmonic generation and wave analysis, circuit elements at audio and radio frequencies, square-wave testing, transmission characteristics of an artificial telephone line, impedance matching at audio and radio frequencies, modulation systems, detectors, generation and amplification of audio and radio frequencies, frequency measurements, field intensity measurements, and antenna radiation patterns.

#### **THE ULTRA-HIGH FREQUENCY LABORATORY**

This laboratory is equipped to study the action of circuits and systems in the frequency range from 100 to 5,000 megacycles. Typical experiments are performed in the study of resonant lines, stub-matching sections, wave guides, resonant cavities, klystrons, magnetrons, horn radiators, parabolic reflectors, etc.

#### **THE ANECHOIC LABORATORY**

As the name implies, the anechoic laboratory is a non-echoing or sound-proofed room in which experiments and measurements can be performed on microphones, loudspeakers, and associated acoustical devices. A Western Electric sound level meter makes possible the measurement of the reverberation characteristics of rooms and the absorbing qualities of various materials. At present the experiments with acoustical systems are performed in conjunction with the communications laboratory course. The facilities for a more complete treatment of acoustics are available when the demand arises.

#### **THE INDUSTRIAL CONTROL LABORATORY**

The industrial control laboratory contains typical electromagnetic and electronic industrial control apparatus, and associated testing equipment. Included are a thyatron-controlled resistance welder, industrial X-ray equipment, an electrostatic air cleaner, a general-purpose timer, a light-sensitive photo-troller, an automatic d-c motor speed regulator, an electronic adjustable-speed drive, a high-frequency industrial electronic heating unit, and a variety of servo-mechanism system components.

#### **THE HIGH VOLTAGE LABORATORY**

Housed in a special room, this laboratory contains equipment for 60-cycle testing up to 100,000 volts, and a surge generator for impulse

testing up to 500,000 volts. Auxiliary equipment provides for the control and measurement of the observed phenomena.

### THE STANDARDIZING LABORATORY

This room is provided with standard instruments for the purpose of checking and calibrating instruments used in the other laboratories. Standard cells, potentiometers, voltmeters, ammeters, wattmeters, watt-hour meters, shunts, bridges, and equipment for obtaining standard time and frequency from U. S. Bureau of Standards signals are included.

### AMATEUR RADIO STATION W4AHY

The Engineers' Radio Association is licensed by the Federal Communications Commission to operate and maintain amateur radio station W4AHY. The station is equipped with a 125-watt 80-meter phone and C. W. transmitter, a 150-watt 20-meter phone and C. W. transmitter, a Collins 30FXB 100-watt 10-meter phone transmitter, Hammarlund Pro and HQ129 receivers, and associated testing and operating equipment. The facilities of the station are used by licensed students to gain practical experience in short wave radio and to communicate with other amateur radio operators the world over.

### THE PHOTOGRAPHIC DARK ROOM

Adjoining the industrial control laboratory is a photographic dark room maintained by the Department of Electrical Engineering to meet its specialized needs.

### THE COMPUTATION AND BRIEFING ROOMS

On each floor of the electrical engineering wing adjacent to the laboratories, there is a laboratory computation and briefing room.

### THE STAFF WORK ROOM AND FILE ROOM

Space is afforded by this room for special projects and conferences of the staff of the Electrical Engineering Department. A file room adjoining the staff work room permits convenient reference to manufacturers' bulletins and other specialized literature pertaining to the field of electrical engineering.

## PROGRAM OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

For the uniform freshman program see page 12.

### *Sophomore Year*

FIRST SEMESTER			SECOND SEMESTER		
		S.H.			S.H.
Math 52	Calculus II .....	3	Math 53	Calculus III .....	3
Phys 51	Physics .....	5	Phys 52	Physics .....	5
Econ 51	Economics .....	3	Econ 52	Economics .....	3
G.E. 57	Statics .....	3	M.E. 52	Kinetics—Mechanism ...	4
E.E. 51	Survey—Electrical		E.E. 52	Electricity—Magnetism ..	3
	Engineering .....	1		Physical Education .....	1
Eng 113	Advanced Composition ..	3			
	Physical Education .....	1			
		<hr/>			<hr/>
		19			



*Junior Year*

E.E. 101	Circuits .....	3	E.E. 102	Circuits .....	3
E.E. 107	Circuits Laboratory ....	1	E.E. 108	Circuits Laboratory ....	1
E.E. 105	Measurements .....	4	E.E. 106	Electronics .....	4
Math 131	Differential Equations ..	3	E.E. 148	D-C Machinery .....	3
M.E. 103	Heat Power .....	3	M.E. 104	Heat Power .....	3
M.E. 115	Mech. Eng. Laboratory 1		M.E. 116	Mech. Eng. Laboratory 1	
G.E. 128	Hydraulics .....	3	Eng 151	Public Speaking .....	3
<hr/>			<hr/>		
18			18		

*Senior Year*

E.E. 257	A.C. Machinery .....	3	E.E. 258	A-C Machinery .....	3
E.E. 163	Machinery Laboratory ..	1	E.E. 164	Machinery Laboratory ..	1
E.E. 261	Communications .....	4	E.E. 262	Communications .....	4
E.E. 165	Seminar .....	1	E.E. 165	Seminar .....	1
E.E. 159	Transmission .....	3	G.E. 107	Strength of Materials ...	3
E.E.	Elective .....	3	G.E. 109	Materials Laboratory ...	1
	Elective (Non-		E.E.	Elective .....	2
	Technical) .....	3		Elective (Non-	
<hr/>			<hr/>		
18			18		

**COURSES OF INSTRUCTION**

PROFESSOR SEELEY, CHAIRMAN; ASSOCIATE PROFESSOR MEIER; ASSISTANT PROFESSORS EGERTON, KRAYBILL, AND VAIL; MESSRS. HATLEY, MARTIN, AND SLAUGHTER

**51. Survey of Electrical Engineering.**—A course designed to give the student a general survey of the engineering profession, to define the scope of activities of the electrical engineer, and to provide an introduction to engineering problems. One two-hour computation. **1 s.h.**

ASSISTANT PROFESSOR KRAYBILL AND STAFF

**52. Principles of Electricity and Magnetism.**—An introductory course covering a mathematical and physical analysis of energy relations in electrostatic and magnetostatic fields; resistance, capacitance and inductance of systems of conductors; systems of electric and magnetic units. Two recitations and one two-hour computation. Prerequisites: E.E. 51, Mathematics 52. Physics 52, Mathematics 53 concurrently. **3 s.h.**

ASSISTANT PROFESSOR VAIL

**101-102. Circuits in Electrical Engineering.**—A two-semester course covering methods of electric and magnetic circuit analysis applicable in all branches of electrical engineering; alternating and direct currents; the algebra of vectors and complex quantities; networks; nonsinusoidal waves; coupled circuits; transients; polyphase circuits; symmetrical components. Prerequisite: E.E. 52. Mathematics 131 concurrently. **6 s.h.**

ASSISTANT PROFESSOR VAIL

**105. Electrical Measurements.**—A course covering direct-current and low-frequency measurements; the theory, calibration, and use of laboratory standards, potentiometers, instrument transformers, and power and energy measuring apparatus; and audio-frequency measurements of impedance, current and potential. Three class sessions and one three-hour laboratory. Prerequisite: E.E. 52. Mathematics 131 and E.E. 101 concurrently. **4 s.h.**

MESSRS. HATLEY AND SLAUGHTER

**106. Electron Tubes and Circuits.**—A course covering electronic emission, static and dynamic tube characteristics, rectification, glow-discharge tubes, amplifiers, oscillators, and other typical circuits. Three class sessions and one three-

hour laboratory. Prerequisites: E.E. 101, E.E. 107. E.E. 102 and E.E. 108 concurrently. 4 s.h. MESSRS. HATLEY AND SLAUGHTER

**107-108. Circuits Laboratory.**—A two-semester course designed to provide instruction in electrical laboratory techniques and in the preparation of engineering reports, and to provide experimental verification of the theory of course E.E. 101-102, with which it should be taken concurrently. One three-hour laboratory. 2 s.h. ASSISTANT PROFESSOR VAIL AND STAFF

**123. Principles of Electric Circuits.**—A course designed especially for students in other branches of engineering, covering the fundamental electric units and both alternating and direct-current circuits. Three class sessions and one three-hour laboratory. Prerequisites: Mathematics 53 and Physics 52. 4 s.h. ASSISTANT PROFESSORS KRAYBILL AND EGERTON

**124. Principles of Electric Machinery.**—A course designed especially for students in other branches of engineering, covering the application of the principles of course E.E. 123 to alternating and direct-current machinery and associated apparatus. Three class sessions and one three-hour laboratory. Prerequisite: E.E. 123. 4 s.h. ASSISTANT PROFESSORS KRAYBILL AND EGERTON

**148. Direct-Current Machinery.**—A study of the principles which underlie the design and operation of all types of direct-current generators, motors, and associated apparatus. Prerequisites: E.E. 101 and E.E. 107. E.E. 102 and E.E. 108 concurrently. 3 s.h. ASSOCIATE PROFESSOR MEIER

**157. Industrial Applications of Electrical Equipment.**—A course of lectures, demonstrations and recitations designed especially for students in other branches of engineering, dealing with the basic principles of utilization of a wide variety of electrical equipment in industrial practice. Emphasis is on industrial control, motor and generator applications, and electronic devices and applications. Prerequisite: E.E. 124. 3 s.h. ASSOCIATE PROFESSOR MEIER

**158. Electric-Power Stations.**—A course providing a brief survey of the electric-power industry followed by a consideration of the economic and engineering features of power plant location and design, and by a study of the apparatus utilized in the generation, transmission and distribution of electric power. Prerequisites: E.E. 148 and M.E. 104. E.E. 257-258 concurrently. 3 s.h. PROFESSOR SEELEY

**159. Transmission.**—A development of the theory underlying the transmission of electric energy over conductors at both power and communication frequencies. Two class sessions and one two-hour computation. Prerequisites: E.E. 101-102, E.E. 105, E.E. 106, Mathematics 131. 3 s.h. PROFESSOR SEELEY

**163-164. Electric Machinery Laboratory.**—A study of the technique of testing electric machines and a thorough analysis of their performance. Concurrent with E.E. 257-258. One three-hour session, for two semesters. 2 s.h. ASSOCIATE PROFESSOR MEIER AND MR. MARTIN

**165-166. Electrical Engineering Seminar.**—A course in which seniors are required to present oral reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. 2 s.h. STAFF

**173-174. Projects in Electrical Engineering.**—A course which may be undertaken only by seniors who show special aptitude, or who may have had previous experience directly related to the proposed project. The consent of the Chairman of the Department must be obtained before registering. 3-6 s.h. PROFESSOR SEELEY AND STAFF

**198. Industrial Control.**—This course, open only to students majoring in electrical engineering, consists of a study of the electromagnetic and electronic control of electric motors in industrial applications. Prerequisites: E.E. 101-102, E.E. 106, E.E. 148, and E.E. 257. E.E. 258 concurrently. **3 s.h.**

ASSOCIATE PROFESSOR MEIER

**257-258. Alternating-Current Machinery.**—A two-semester course dealing with the theory underlying the design, construction, and operation of synchronous generators, transformers, polyphase induction motors, synchronous motors, single-phase motors of all types, and converters and rectifiers. Prerequisites: E.E. 101-102 and E.E. 148. **6 s.h.**

ASSOCIATE PROFESSOR MEIER AND MR. MARTIN

**261. Communication Engineering: Low Frequency.**—An advanced course dealing with the principles underlying voice-frequency communication. Included are the nature of sound and speech; wave propagation over metallic circuits; filters; resistance, inductance and capacitance at audio frequencies; transmission characteristics of audio-frequency communication equipment. Three class sessions and one three-hour laboratory. Prerequisites: E.E. 101-102, E.E. 106, and Mathematics 131. **4 s.h.**

PROFESSOR SEELEY

**262. Communication Engineering: High Frequency.**—An advanced course dealing with the principles underlying communication at radio and ultra-high frequencies. Included are oscillating and coupled circuits, antennas, radiation, transmission, reception, and ultra-high frequency techniques. Three class sessions and one three-hour laboratory. Prerequisite: E.E. 261. **4 s.h.**

PROFESSOR SEELEY

**263-264. Mathematical Analysis of Electric Circuits.**—An advanced course covering the mathematical analysis of certain circuits used in electrical engineering, with an introduction to the application of operational calculus to circuit analysis. Prerequisites: E.E. 101-102 and Mathematics 131. **6 s.h.**

PROFESSOR SEELEY

## DEPARTMENT OF MECHANICAL ENGINEERING

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The profession of mechanical engineering is founded upon the production of power from nature's resources and the application of this power to useful ends. It is a profession with many specialized fields of both theoretical and applied knowledge and techniques. Some of these fields of specialization are combustion or power production engineering, machine and machine-tool design, railway motive power engineering, automotive engineering, heating and air conditioning, refrigeration, and industrial management.

The Department makes no attempt to train specialized engineers during the four-year undergraduate course; rather, a well-balanced fundamental training with applications in the more active fields is its aim. Theoretical training in the classroom is carefully supplemented by application in the laboratory.

The equipment in the mechanical engineering laboratories has been carefully selected and grouped to yield the greatest educational benefit to the student.

### POWER PLANT LABORATORY

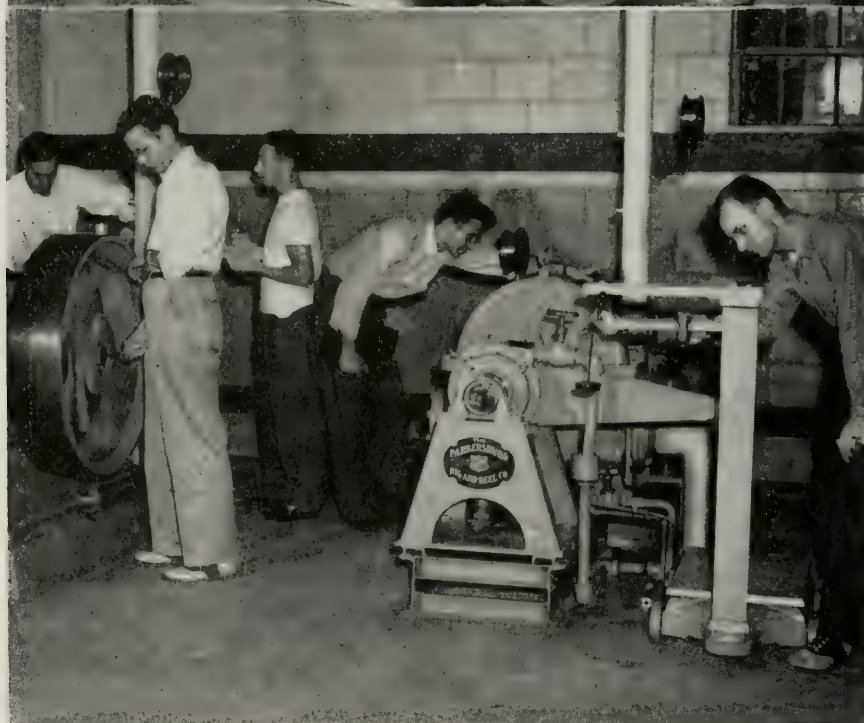
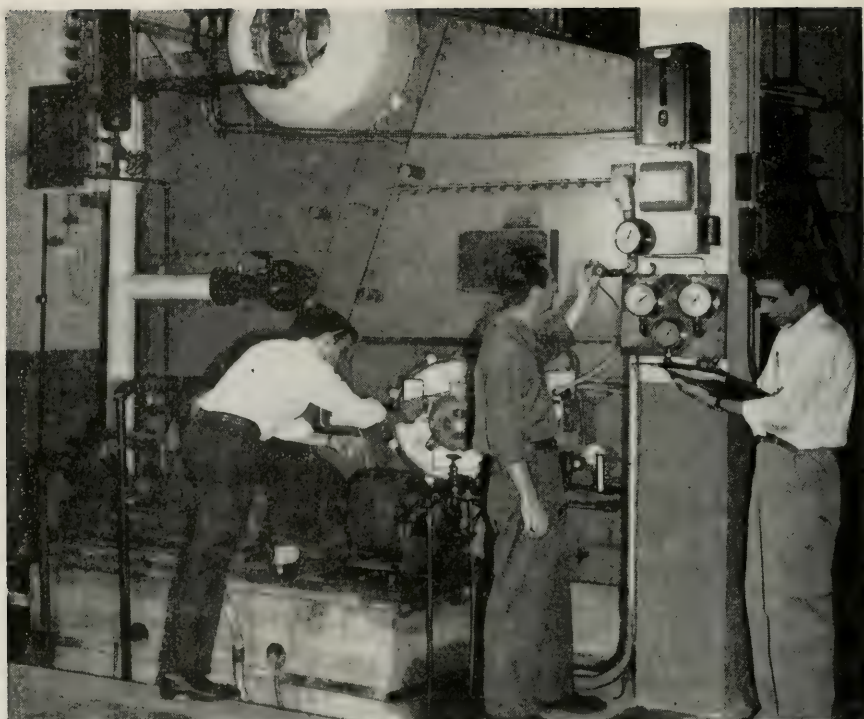
This laboratory occupies a two-story wing off the main mechanical engineering wing of the Engineering Building. A 3200-pound per hour, automatic, oil-fired Combustion Engineering boiler, designed specifically for the needs of this laboratory, produces steam at 250 pounds pressure and a total temperature of 556° F. This steam is utilized to operate a complete experimental power plant in the same wing. The experimental power plant consists of two 25-kw Westinghouse turbogenerator units, condenser and air ejector with after-condenser, feed-water heater, pumps and accessories, and a control and instrument board. The electric energy generated operates a synchronous motor and hydraulic dynamometer. Interconnection of piping and controls, and complete instrumentation, enable the simulation and study of any type of power plant in common use.

### MECHANICAL LABORATORY

**Steam Equipment:** Adjacent to the boiler room are a horizontal Troy engine with shaft cut-off governor, a Troy vertical throttling governing engine, a Sturtevant steam turbine, a condenser and air ejector with after-condenser and accessories, and a boiler feed pump. These may be tested and studied individually or in combinations. Additional equipment for studying flow and quality of steam, an injector, and traps are located in this area.

**Internal Combustion Equipment:** A section of the west side of the laboratory is equipped with two automotive-type gasoline engines, a marine gasoline engine, and three Diesel engine-generator sets, with brakes and accessories for determining their characteristics and energy balances.





DEPARTMENT OF MECHANICAL ENGINEERING



**Air Compression:** Near the internal combustion section is a Worthington 8 by 9-inch V-belt driven compressor supplying air at 100 pounds pressure and instrumented to permit very complete study of its characteristics and the general theory of air compression.

**Hydraulic Apparatus:** A section of the east side and south end of the laboratory contains a Cameron centrifugal pump combined with a series of weirs and orifices, as well as a hydraulic turbine which may be equipped alternately with either a Kaplan or Francis type of wheel. This equipment offers a complete range of experiments and tests in hydraulics and fluid mechanics.

**Lubricants and Fuels Testing Laboratory:** In the south end of the main laboratory are five rooms completely equipped for the study of solid, liquid, and gaseous fuel analysis and calorimetry; lubricant testing; and feed-water analysis.

**Instrument Room:** An instrument room is provided for the storing and maintenance of instruments. Such instruments include steam and internal combustion engine indicators and reducing motions, tachometers and speed counters, planimeter, pressure gauges and gauge testers, thermometers of all types, scales of all types and small tools.

**Heating, Air Conditioning, and Refrigeration:** A standard type of coal-fired heating boiler, standard centrifugal fan testing setup, equipment for studying the flow of air through ducts, registers, and grilles, and two five-horsepower York Freon-12 refrigerating compressors are provided at the north end of the balcony for study and testing in this field.

### MATERIALS PROCESSING LABORATORY

**Machine Tools:** Two engine lathes, a universal milling machine, a shaper with slotting attachment, a drill press, a power grinder, and a power hack saw compose the metal-working tools. Such auxiliary attachments as are needed for general-purpose machines are provided for the above machine tools. Woodworking machines that include the lathe, band saw, circular saw and planer, and a disc sander are available for pattern and model construction.

**Welding Equipment:** A 200-ampere electric arc welding machine and complete oxy-acetylene welding and cutting equipment are provided for demonstration of these methods of construction and fabrication.

**Casting Equipment:** A gas-fired melting furnace and sufficient molding equipment are available for the production of small castings on a demonstration basis.

**Metallographic and Heat Treating Equipment:** Polishing equipment and a microscope are available for the preparation and examination of metal specimens. Heat treatments may be carried out with the use of a gas-fired heat-treating furnace.

# PROGRAM OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

For the uniform freshman program see page 12.

## *Sophomore Year*

FIRST SEMESTER			SECOND SEMESTER		
		S.H.			S.H.
Math 52	Calculus II .....	3	Math 53	Calculus II .....	3
Phys 51	Physics .....	5	Phys 52	Physics .....	5
Econ 51	Economics .....	3	Econ 52	Economics .....	3
G.E. 57	Statics .....	3	M.E. 52	Kinetics-Mechanism ....	4
M.E. 55	Steam Engineering ....	2	Eng 113	Advanced Composition .	3
M.E. 51	Constructive Processes ..	3		Physical Education .....	1
	Physical Education .....	1			
		—			19
		20			

## *Junior Year*

M.E. 101	Thermodynamics .....	3	M.E. 102	Thermodynamics .....	3
M.E. 113	Mech. Eng. Laboratory 1	1	M.E. 114	Mech. Eng. Laboratory 2	2
M.E. 105	Fluid Mechanics .....	3	M.E. 108	Aeronautics .....	3
G.E. 107	Strength of Materials ..	3	M.E. 106	Heat Transfer .....	3
G.E. 109	Materials Laboratory ..	1	M.E. 150	Machine Design .....	3
E.E. 123	Electric Circuits .....	4	E.E. 124	Electric Machinery ....	4
Eng 151	Public Speaking .....	3			—
		18			18

## *Senior Year*

M.E. 151	Machine Design .....	4	M.E. 158	Industrial Engineering .	3
M.E. 155	Internal Combustion Engines .....	3	M.E. 162	Power Plants .....	3
M.E. 153	Heating—Air Conditioning .....	3	M.E. 154	Refrigeration .....	3
M.E. 159	Mech. Eng. Laboratory 2	2	M.E. 160	Mech. Eng. Laboratory 2	2
	Engineering Elective ...	3		Engineering Elective ...	3
	Elective (Non- Technical) .....	3		Elective (Non- Technical) .....	3
		—			17
		18			

## COURSES OF INSTRUCTION

PROFESSOR WILBUR, CHAIRMAN; ASSOCIATE PROFESSOR REED; ASSISTANT PROFESSOR KENYON; MESSRS. BOUTWELL, HARDY, HOLLAND, AND MORGAN

**51. Constructive Processes.**—Recitation course covering fundamentals of metallurgy and general processes of casting, forging, and machining. Demonstration or observation of basic machining operations is arranged when possible. Prerequisite: Chemistry 2. **3 s.h.** MESSRS. BOUTWELL, HARDY AND HOLLAND

**52. Kinetics-Mechanism.**—Motions of particles. Applications of Newton's laws of motion to motions of rigid bodies. Work, energy, impulse, and momentum. Linkages, cams, gears, trains of mechanism. Three recitations, three laboratory hours. Prerequisites: G.E. 2, G.E. 57, Mathematics 52. **4 s.h.**

ASSOCIATE PROFESSOR REED AND MESSRS. HARDY AND BOUTWELL

**55. Steam Engineering.**—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam; fuels and combustion. Prerequisite: Chemistry 2. **2 s.h.** ASSISTANT PROFESSOR KENYON AND MR. HOLLAND

**101-102. Engineering Thermodynamics.**—A study of thermodynamic properties and processes of gases, vapor and gas-vapor mixtures; cycles; efficiencies and performance of steam power plant equipment. Three recitations. Prerequisites: Mathematics 52, Physics 52, M.E. 55. **6 s.h.**

PROFESSOR WILBUR AND ASSISTANT PROFESSOR KENYON

**103-104. Heat Power Engineering.**—A short course in engineering thermodynamics with applications to power plant design, for C.E. and E.E. students only. Three recitations. Prerequisites: Chemistry 2, Mathematics 52, Physics 52. **6 s.h.**

ASSISTANT PROFESSOR KENYON, MESSRS. HARDY AND HOLLAND

**105. Fluid Mechanics.**—Fluid statics; kinematics of fluid flow; application of fluid dynamics theory to flow through orifices, weirs, and pipes; general principles of centrifugal pumps and turbines. Prerequisites: M.E. 52, Mathematics 52, Physics 52.

PROFESSOR WILBUR AND MR. MORGAN

**106. Heat Transfer.**—Conduction, radiation and convection; heat transfer to boiling liquids or condensing vapors; over-all transfer of heat, steady state or variable flow. Applications to heat power, heating and air conditioning, and refrigeration. Prerequisites: M.E. 101, M.E. 105, Mathematics 52. M.E. 102 concurrently. **3 s.h.**

ASSOCIATE PROFESSOR REED

**108. Aeronautics.**—A general course applying fluid mechanics principles to airfoils, propellers, and the complete airplane. Prerequisite: M.E. 105. **3 s.h.**

MR. MORGAN

**113-114. Junior Mechanical Engineering Laboratory.**—Open only to mechanical engineering students. First semester, three laboratory hours, devoted to experiments and reports in hydraulics, flue gas analyses, calorific value of fuels. Second semester, six laboratory hours, devoted to experiments and reports related to thermodynamics, such as boiler inspection, air compression, injectors, steam and fuel calorimetry. Prerequisite: M.E. 55. M.E. 101-102 concurrently. **3 s.h.**

PROFESSOR WILBUR AND STAFF

**115-116. Junior Mechanical Engineering Laboratory.**—Open only to Electrical and Civil engineering students. Experiments and reports on measuring instruments and apparatus, flow of air, steam and water, economy of boilers, steam and internal combustion engines. Three laboratory hours. M.E. 103-104 concurrently. **2 s.h.**

PROFESSOR WILBUR AND STAFF

**150-151. Machine Design.**—Application of principles of mechanics, strength of materials, constructive processes and engineering drawing to the design of bolted, riveted and welded connections, pressure vessels and machine elements, followed by design of at least one complete machine. M.E. 150 has two recitations and three laboratory hours; M.E. 151 has two recitations and six laboratory hours. Prerequisites: G.E. 2, M.E. 52, G.E. 57, M.E. 51, G.E. 107. **7 s.h.**

MESSRS. BOUTWELL AND HOLLAND

**153-154. Heating, Air Conditioning and Refrigeration.**—Determinations of heat losses and gains; design of steam, hot water and warm air heating and air conditioning systems; panel heating. Fundamentals of refrigeration theory and design. Applications of refrigeration to summer and year round air conditioning; commercial and industrial applications of refrigeration. Prerequisites: M.E. 102, M.E. 105, M.E. 106. M.E. 159-160 concurrently. Two recitations, three laboratory hours. **6 s.h.**

ASSOCIATE PROFESSOR REED

**155. Internal Combustion Engines.**—Principal cycles; fuels and fuel mixtures; effect of real mixtures on theoretical cycles; combustion; carburetion and fuel injection. Thermodynamic analysis of engine performance. Modern development in the internal combustion engine. Three recitations. Prerequisite: M.E. 101-102. **3 s.h.**

MR. HARDY

**158. Industrial Engineering.**—A study of the industrial growth and present tendencies of productive industries as concerns the engineer. Specific topics treated are: plant location, organization, production and cost controls, wage payment, etc. Seniors only. Three recitations. **3 s.h.**

ASSISTANT PROFESSOR LEWIS

**159. Senior Mechanical Engineering Laboratory.**—Tests and reports on performance and economy of internal combustion engines, steam engines and turbines; heat transfer, radiator tests, and heat balances. Required of all Seniors in mechanical engineering. Six laboratory hours. Prerequisite: M.E. 114. M.E. 153 concurrently. **2 s.h.**

PROFESSOR WILBUR AND STAFF

**160. Senior Mechanical Engineering Laboratory.**—Required of all Mechanical Option Seniors. Tests and reports on boiler, engine, turbine, condenser and accessories; heat transfer; refrigeration equipment. Six laboratory hours. Prerequisite: M.E. 159. M.E. 154, 162 concurrently. **2 s.h.**

PROFESSOR WILBUR AND STAFF

**162. Power Plant Calculations.**—Study of economic and engineering factors in developing steam power plants. Consideration of the performance of boilers, prime movers, condensers and various auxiliaries in various groupings as they affect the plant heat balance. Three recitations. Prerequisite: M.E. 101-102 or 103-104. **3 s.h.**

PROFESSOR WILBUR

**197-198. Projects in Mechanical Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who express a desire for such work and who have shown aptitude for research in one distinct field of mechanical engineering. Elective credit for either semester. **3-6 s.h.**

PROFESSOR WILBUR AND STAFF



## FEES AND EXPENSES

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### UNDERGRADUATE COLLEGES OF ARTS AND SCIENCES AND COLLEGE OF ENGINEERING

All fees listed below, with the exception of that for registration, are due and payable at the beginning of each semester. The General Fee, adopted by the Board of Trustees in March, 1947, became effective for the academic year 1947-48 and thereafter, takes the place of various separate fees heretofore collected and is a consolidation, principally for simplification, of these separate fees. Among the fees included in this consolidation are the laboratory fees, athletic fee, publication fee, medical fee, matriculation fee, library fee, and commencement fee.

Registration, payable only once, on notice of acceptance. This is not refundable.....\$ 20.00

Tuition ..... 175.00

General Fee ..... 75.00

An advance deposit of \$25.00 is required of all students at the time of spring registration in order to reserve a place in the classes for the fall semester. This is applied toward payment of the general fee upon the opening of the fall semester. The deposit will be refunded to students whom the University does not permit to return. Students who fail to return of their own volition are not entitled to a refund.

An advance deposit of \$25.00 is also required of old students who have been out of school for one or more semesters and have been accepted for readmission. It is applied toward payment of the general fee for the semester of readmission. The advance deposit is paid at the time of acceptance and is not refundable.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary expenses are as follows:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$350.00	\$ 350.00	\$ 350.00
General Fee .....	150.00	150.00	150.00
Room-rent .....	100.00	125.00	175.00
Board .....	325.00	375.00	450.00
Laundry .....	25.00	30.00	35.00
Books .....	20.00	30.00	40.00
	<hr/> \$970.00	<hr/> \$1,060.00	<hr/> \$1,200.00

The actual fees and expenses necessary for one year in residence as a student in the College of Engineering, then, can be met within \$970.00.



**LIVING ACCOMMODATIONS FOR MEN**

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	\$87.50
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	62.50

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet.

One dormitory is assigned to freshmen.

Rooms may be reserved only for applicants who have been officially accepted by the University. A fee of \$25.00 is required for reservation. This fee is deducted from the room rental charge at the time of registration for the semester; it is not refunded unless application for the refund is made sixty days prior to the registration date of the semester.

A resident student in order to retain his room for the succeeding semester must make application, accompanied by a reservation fee of \$25.00. All rooms which have not been reserved on or before an announced date will be considered vacant for the succeeding semester and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or, in the case of a medical student, one quarter, unless by special arrangement with the Housing Bureau. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The exchange of rooms may be arranged at the Housing Bureau within fifteen (15) days after the official opening of the semester or quarter of the school term. A charge of two dollars (\$2.00) will be made for the exchange of rooms after the periods allowed for such exchange. Persons exchanging rooms without the approval of the Housing Bureau will be subject to charges for both rooms.

The authorities of the University do not assume the responsibility for the personnel selected as roommates. Each student is urged to select the roommate when the room is reserved.

**DINING SERVICE**

*West Campus.*—Food service is cafeteria style. The cost of meals approximates \$1.25 to \$1.75 per day depending upon the need and taste of the individual. The dining facilities on the West Campus include three cafeterias with multiple choice menus and, in addition, the Oak Room where full meals and *a la carte* items are served.

**RULES REGARDING PAYMENTS**

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University.

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.

2. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full; subsequent withdrawal does not entitle a student to a refund.

3. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all his indebtedness to the University.

4. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the midyear or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

## ACTIVITIES

### STUDENT BRANCHES OF ENGINEERING PROFESSIONAL SOCIETIES

The three Departments of the College of Engineering support student branches of the following national professional engineering societies:

*American Institute of Electrical Engineers, American Society of Civil Engineers, American Society of Mechanical Engineers.*

### ENGINEERING STUDENT HONORARY SOCIETIES

Chapters of the following national engineering student honorary societies are maintained at Duke:

*Tau Beta Pi* (National Honorary Engineering Fraternity).

*Pi Tau Sigma* (Mechanical Engineering National Honorary Society).

*Order of St. Patrick* (Leadership in Engineering Student Activities).

### ENGINEERING STUDENT PUBLICATION

*The Duke Engineer*, official student-published magazine of the College of Engineering which appears twice each semester, contains articles on technical and semi-technical topics and other matters of interest in the College.

### THE ENGINEERS' CLUB

The Engineers' Club sponsors social activities among students of the College of Engineering.

### GENERAL ACTIVITIES OPEN TO ENGINEERS

The Young Men's Christian Association; Classical Club; Debate Council; Club Panamericano; Commodore Club; Duke Masonic Club; Duke University Steering Committee; Duke Players; Duke University Church (Interdenominational); Duke University Handbook and Directory; Freshman Advisory Council; Hoof 'n' Horn Club; Interfraternity Council; Intramural Athletic Department; Pegram Chemistry Club; Quadrangle Pictures; Shoe and Slipper Club; Student Religious Council; Town Boys' Club; G.O. Politan Club; Young Democrats Club; Duke University Instrumental Music Association; Men's Glee Club; The University Chapel Choir; *The Archive* (Monthly); *Chanticleer* (Annual); *Chronicle* (Weekly); *Duke 'n' Duchess* (Monthly Humor).

### HONORARY SOCIETIES

In addition to the national engineering student honorary societies, students of the College of Engineering are eligible for membership in the following national honorary societies:

*Phi Beta Kappa* (Scholarship); *Sigma Xi* (Scientific Research); *Omicron Delta Kappa* (Leadership—Men); *Phi Eta Sigma* (Freshman Scholarship); *Pi Mu Epsilon* (Mathematics); *Sigma Pi Sigma* (Phys-

ics); *Sigma Delta Pi* (Spanish); *Tau Kappa Alpha* (Forensic); *Tau Psi Omega* (French); *Theta Alpha Phi* (Dramatic); *Delta Phi Alpha* (German).

Local honorary societies for which engineers are eligible include: *9019* (Scholarship); *Red Friars* (Leadership); *Beta Omega Sigma* (Sophomore Leadership); *Tombs* (Athletic).

### NATIONAL SOCIAL FRATERNITIES

Alpha Tau Omega; Beta Theta Pi; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

### HONORS

To be eligible for Honors, a student must earn during the year a credit of not less than thirty semester hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality points per semester hour are given Honors. All semester hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering with distinction is conferred under the following rules:

Students who have completed a minimum of ninety semester hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality points per semester hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality points per semester hour are recommended for a degree *summa cum laude*. All semester hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

### PRIZES

*The Sigma Xi Prize*: The Society of the Sigma Xi, honorary scientific society, is devoted to the encouragement of scientific research and seeks to stimulate those who show promise of accomplishment in scientific research. As an encouragement to younger men and women the Duke Chapter of Sigma Xi has established several prizes to be awarded annually, among them a prize of \$20 for an outstanding undergraduate project or paper.

*Julia Dale Prize in Mathematics*: This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

*The Milmore Prize*: This prize, consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

*The Tau Beta Pi Prize:* The North Carolina Gamma Chapter of Tau Beta Pi, national honorary engineering fraternity, awards each year a suitable prize, such as an engineering handbook, to a sophomore student in engineering for outstanding scholastic achievement during the freshman year.

*The William Senhauser Prize* is given by his mother in memory of her son, a member of the class of 1942, who lost his life in the Pacific Theatre of War on August 4, 1944. The award is made annually to the sophomore or junior in Trinity College or the College of Engineering who has made the greatest contribution through participation and leadership in intramural sports. The winner of this prize is chosen by a committee selected by the President of the University.



## SCHOLARSHIPS

Duke University annually awards available scholarships, administers loan funds, and supervises student employment through a committee of the Faculty for deserving undergraduates of Trinity College, the Woman's College, and the College of Engineering.

All applications for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University.

### THE ANGIER DUKE REGIONAL SCHOLARSHIP PRIZES

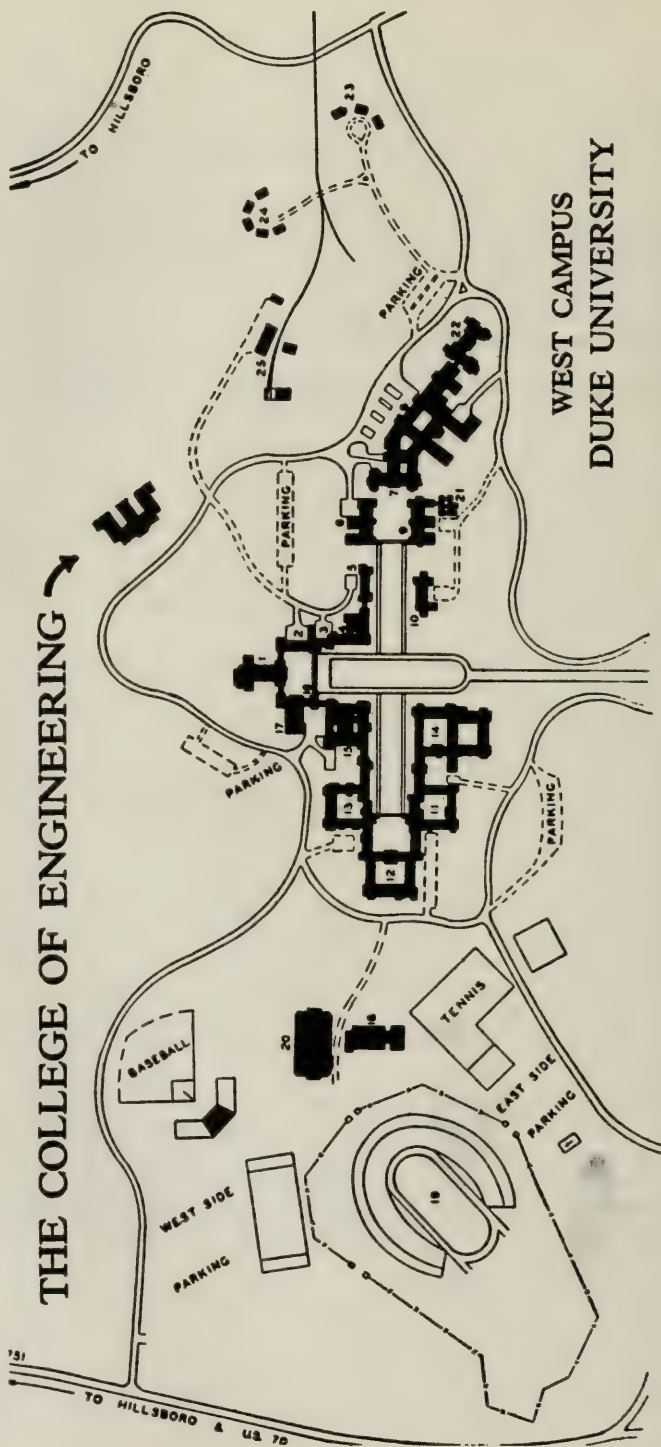
*Value.* Six scholarship prizes of \$750.00 each are awarded annually to four men and two women. Prizes are awarded for one year and are renewable from year to year for a maximum duration of four years, on the condition that the holder maintain a scholastic average in the upper quartile of his class and further that he show evidence of developing the qualities of leadership which served as the basis for the original selection. When all awards are renewed, there are twenty-four holders of prizes in residence. The total value to the recipient who qualifies for the maximum period is \$3,000.00.

*Eligibility.* Any resident of the state of North Carolina is eligible to apply regardless of where he or she prepares for college. A candidate may be a graduate of a secondary school, public or private, located within or beyond the borders of the state. Candidates must be eligible for admission to the freshman class of Trinity College, the College of Engineering or the Woman's College in the ensuing academic year and must have maintained scholastic standing in the highest quartile of their class.

*Objective.* The prizes are intended to encourage as students young men and women who give promise of becoming leaders in their chosen fields of endeavor. As potential leaders, they should possess character, personality, intellectual integrity, vitality, and imagination. As students they should possess scholastic ability of a creative sort and minds that can digest and use the knowledge they acquire. The scholarships are designed to stimulate young men and women who possess these traits to become citizens with a genuine interest in society and ability to influence and direct the course of affairs.

*Procedure.* Applications for one of the scholarships awarded to men should be addressed to the Office of the Secretary, Duke University, Durham, N. C.; applications for one of the scholarships awarded to women should be addressed to the Director of Admissions, Woman's College, Durham, N. C. The deadline for filing of these applications is December 15 in the academic year preceding the year of contemplated entrance to college.

# THE COLLEGE OF ENGINEERING →



WEST CAMPUS  
DUKE UNIVERSITY





VOLUME 21

April, 1949

NUMBER 6

# BULLETIN OF DUKE UNIVERSITY

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## *Undergraduate Instruction*

(Trinity College, the Woman's College, and the  
College of Engineering)



1948-1949

ANNOUNCEMENTS FOR 1949-1950

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA



## ANNUAL BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

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For BULLETIN OF THE DIVINITY SCHOOL, apply to *The Dean of the Divinity School*, Duke University, Durham, N. C.

For BULLETIN OF THE SUMMER SESSION, apply to *The Director of the Summer Session*, College Station, Durham, N. C.

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BULLETIN  
OF  
DUKE UNIVERSITY



UNDERGRADUATE INSTRUCTION

(Trinity College, the Woman's College, and the  
College of Engineering)

1948-1949

ANNOUNCEMENTS FOR 1949-1950

DURHAM, NORTH CAROLINA  
1949



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## CALENDAR OF THE COLLEGES

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### 1949

- Sept. 15 Thursday, 9:00 A.M.—Dormitories open to Freshmen.  
Sept. 15 Thursday, 7:30 P.M.—Assembly for all entering Freshmen; Freshman Orientation Program begins.  
Sept. 19 Monday—Registration and matriculation of new students with advanced standing—Trinity College and the College of Engineering.  
Sept. 20 Tuesday—Registration and matriculation of new students with advanced standing, Woman's College.  
Sept. 21 Wednesday, 11:00 A.M.—Formal opening of the Colleges.  
Sept. 22 Thursday—Instruction begins.  
Nov. 12 Saturday—Last day for reporting mid-semester grades.  
Nov. 24 Thursday—Thanksgiving Day: a holiday.  
Dec. 11 Sunday—Founders Day.  
Dec. 20 Tuesday, 5:00 P.M.—Christmas recess begins.

### 1950

- Jan. 4 Wednesday, 8:00 A.M.—Instruction is resumed.  
Jan. 18 Wednesday—Mid-year examinations begin.  
Jan. 28 Saturday—Mid-year examinations end.  
Jan. 30 Monday—Registration and matriculation of new students.  
Jan. 31 Tuesday—Last day for matriculation for second semester.  
Feb. 1 Wednesday—Second semester begins.  
March 16 Thursday—Last day for reporting mid-semester grades.  
March 25 Saturday, 12:30 P.M.—Spring vacation begins.  
April 3 Monday, 8:00 A.M.—Instruction resumed.  
April 18 Tuesday—Last day for submitting orations for Wiley Gray Contest.  
May 9 Tuesday—Earliest date for beginning of Honors examination.  
May 22 Monday—Final examinations for second semester begin.  
June 1 Thursday—Final examinations end.  
June 3 Saturday—Commencement begins; Senior Class Day; meeting of the Board of Trustees.  
June 4 Sunday—Commencement Sermon.  
June 5 Monday—Commencement Address; Graduating Exercises.

# 1949

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# GOVERNING BODIES AND OFFICERS

## EXECUTIVE COMMITTEE OF THE UNIVERSITY

(Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.)

	Year of Election		
WILLIS SMITH, Chairman.....	1946.....	Raleigh,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
A. H. EDENS.....	1948.....	Durham,	N. C.
R. L. FLOWERS.....	1923.....	Durham,	N. C.
A. R. KEARNS.....	1945.....	High Point,	N. C.
*M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. N. REYNOLDS.....	1933.....	Winston-Salem,	N. C.
A. H. SANDS, JR.....	1946.....	New York,	N. Y.
J. H. SEPARK.....	1929.....	Gastonia,	N. C.

## UNIVERSITY TRUSTEES

Term Expires December 31, 1949

G. G. ALLEN.....	1923.....	New York,	N. Y.
JAMES A. BELL, Vice-Chairman.....	1920.....	Charlotte,	N. C.
R. G. CHERRY.....	1934.....	Gastonia,	N. C.
R. L. FLOWERS.....	1927.....	Durham,	N. C.
J. P. FRIZZELLE.....	1937.....	Snow Hill,	N. C.
T. M. GRANT.....	1933.....	Rocky Mount,	N. C.
E. L. JONES.....	1945.....	Charlotte,	N. C.
J. R. SMITH.....	1934.....	Mount Airy,	N. C.

### FROM THE ALUMNI

B. F. FEW.....	1941.....	New York,	N. Y.
J. W. HARRISS.....	1947.....	High Point,	N. C.
W. J. HOBBS.....	1947.....	New York,	N. Y.
H. B. PORTER.....	1941.....	Raleigh,	N. C.

Term Expires December 31, 1951

E. S. BOWLING.....	1939.....	New York,	N. Y.
H. C. DOSS.....	1943.....	Detroit,	Mich.
P. F. HANES.....	1948.....	Winston-Salem,	N. C.
G. M. IVEY.....	1943.....	Charlotte,	N. C.
B. C. NALLE.....	1941.....	Charlotte,	N. C.
*M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. W. PEELE.....	1921.....	Richmond,	Va.
A. H. SANDS, JR.....	1946.....	New York,	N. Y.
B. S. WOMBLE.....	1915.....	Winston-Salem,	N. C.

### FROM THE ALUMNI

N. E. EDGERTON.....	1941.....	Raleigh,	N. C.
A. R. KEARNS.....	1945.....	High Point,	N. C.
R. A. MAYER.....	1897.....	Charlotte,	N. C.
W. A. STANBURY.....	1933.....	Gastonia,	N. C.

\* Died, September 14, 1948.

## Term Expires December 31, 1953

N. A. COCKE.....	1947.....	Charlotte,	N. C.
D. S. ELIAS.....	1929.....	Asheville,	N. C.
P. H. HANES.....	1912.....	Winston-Salem,	N. C.
J. L. HORNE, JR.....	1934.....	Rocky Mount,	N. C.
B. E. JORDAN.....	1943.....	Saxapahaw,	N. C.
J. B. SIDBURY.....	1947.....	Wilmington,	N. C.
*S. B. TURRENTINE.....	1893.....	Greensboro,	N. C.
E. W. WEBB.....	1933.....	New York,	N. Y.

## FROM THE ALUMNI

S. S. ALDERMAN.....	1934.....	Washington,	D. C.
W. N. REYNOLDS.....	1927.....	Winston-Salem,	N. C.
J. H. SEPAK.....	1916.....	Gastonia,	N. C.
WILLIS SMITH, Chairman.....	1929.....	Raleigh,	N. C.

## COMMITTEES OF THE UNIVERSITY TRUSTEES

*Buildings and Grounds:* J. R. Smith, Cherry, Jordan, Kearns.

*Business Administration:* P. H. Hanes, Elias, Reynolds, Kearns, Hobbs, Sands.

*Colleges:* Mayer, Bell, Newsom,† Turrentine.\*

*Divinity School:* Peele, Grant, Porter, Edgerton, Stanbury.

*School of Forestry:* Cherry, Edgerton, Few, J. R. Smith.

*Graduate School:* Webb, Flowers, Doss, Newsom.†

*Law School:* Womble, Cherry, Frizzelle, Alderman, Cocke.

*Library:* Doss, Allen, Separk, Bowling, Harriss.

*Medical School and Hospital:* Elias, Nalle, Horne, Newsom,† Sidbury.

*Physical Education and Athletics:* J. R. Smith, Edgerton, Jordan, Harriss.

*Engineering and Research:* Ivey, Jones, Webb, Jordan, Doss, Sands, Cocke.

*Cooperation with National Council:* Bowling, Sands, Few, Kearns, Hobbs, Flowers.

*Public Relations and Publicity:* Horne, Ivey, Elias, Harriss.

\* Died, April 12, 1949.

† Died, September 14, 1948.

## OFFICERS OF ADMINISTRATION

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### GENERAL ADMINISTRATION

EDENS, ARTHUR HOLLIS, B.Ph., A.M., M.P.A. <i>President of the University</i>	West Campus
FLOWERS, ROBERT LEE, A.M., LL.D. <i>Chancellor of the University</i>	West Campus
WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Vice-Chancellor of the University</i>	West Campus
GROSS, PAUL MAGNUS, B.S., A.M., Ph.D. <i>Vice-President in the Educational Division</i>	Hope Valley
JORDAN, CHARLES EDWARD, A.B., LL.D. <i>Vice-President in the Division of Public Relations and Secretary of the University</i>	813 Vickers Avenue
HERRING, HERBERT JAMES, A.B., A.M., LL.D. <i>Vice-President in the Division of Student Life and Dean of Trinity College</i>	Myrtle Drive
BROWER, ALFRED SMITH, A.B. <i>Business Manager and Comptroller</i>	1550 Hermitage Court
MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Treasurer of the University</i>	204 Dillard Street

### BUSINESS ADMINISTRATION

BROWER, ALFRED SMITH, A.B. <i>Business Manager and Comptroller</i>	1550 Hermitage Court
MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Treasurer of the University</i>	204 Dillard Street
JORDAN, CHARLES EDWARD, A.B., LL.D. <i>Secretary of the University</i>	813 Vickers Avenue
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WEATHERSPOON, EVERETT BROADUS, A.B. <i>Assistant Secretary</i>	125 Pinecrest Road

---

WHITFORD, WILLIAM EDWARD, A.B. <i>Director of Operation and Maintenance</i>	804 Third Street
MINAH, THEODORE WARREN, B.S., B.S. in H.M. <i>Manager of Dining Hall Operations</i>	2117 Club Boulevard
DOXEY, JOHN ELLWOOD, A.B., A.M. <i>Purchasing Agent</i>	1004 Broad Street
WELLONS, JESSE DAVID, JR. <i>Manager of Stores Operations</i>	2703 Augusta Drive



COOPER, WALTER GLEN, B.A. <i>Personnel Director</i>	1518 Echo Road
HOWARD, WILLIAM KENNETH, B.S. <i>Maintenance Engineer</i>	106 Pinecrest Road
BOWERS, HENRY FRANKLIN, A.B. <i>Manager of Operations</i>	No. 1 Duke University Apts., Markham and Fifth
HAYWOOD, ERNEST LEE, A.B. <i>Chief Accountant</i>	104 Hilton Avenue
MORGAN, HENRY SPECK, A.B. <i>Chief Clerk, Treasurer's Office</i>	409 Francis Street
COUSINS, JAMES FRANKLIN, A.B., C.P.A. <i>Auditor</i>	416 Carolina Circle
DRAPER, SAMUEL DUANE, B.S., M.B.A. <i>Supervisor, Budgets and Reports</i>	No. 16 Duke University Apts., Markham and Fifth
FEARING, ROBERT BEVERIDGE <i>Adviser, Student Activities</i>	1803 Forest Road
<hr/>	
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BRICE, ASHBEL GREEN, A.B., A.M. <i>Editor and Assistant Director, Duke University Press</i>	814 Sixth Street
FIKE, EDWARD L., A.B. <i>Director, Bureau of Public Information</i>	801 Third Street
*BOYDEN, LUCILE K., A.B. <i>Assistant Director, Bureau of Public Information</i>	1212 Arnette Avenue
MANN, GLENN EDWARD, A.B. <i>Director of Sports Publicity</i>	2507 Glendale Avenue
MITCHELL, FANNIE YARBOROUGH <i>Director, Appointments Office</i>	1507 West Pettigrew Street
<hr/>	
BOY, CARL A. <i>Superintendent of Utilities</i>	2214 Erwin Road
GIFT, JOHN C. <i>Superintendent of Building Maintenance</i>	811 Fifth Street

### ALUMNI AFFAIRS

DUKES, CHARLES AUBREY, A.B. <i>Director</i>	1309 Oakland Avenue
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CORBIN, CHARLOTTE, A.B. <i>Assistant to the Director</i>	403 W. Chapel Hill Street
MARSHALL, ROGER, A.B. <i>Alumni Editor</i>	1829 Forest Road

\* Resigned, April 15, 1949.

## EDUCATIONAL ADMINISTRATION

GROSS, PAUL MAGNUS, B.S., A.M., Ph.D.  
*Vice-President in the Educational Division*

Hope Valley

## UNDERGRADUATE COLLEGES

HERRING, HERBERT JAMES, A.B., A.M., LL.D.

*Dean of Trinity College*

Myrtle Drive, West Campus

BRINKLEY, ROBERTA FLORENCE, A.B., A.M., Ph.D.

*Dean of the Woman's College*

East Campus

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*Dean of the College of Engineering*

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*Dean of Freshmen, Trinity College*

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SMITH, MRS. RUTH SLACK, A.B., A.M.

*Dean of Undergraduate Instruction, Woman's College*

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1507 W. Pettigrew Street

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*Assistant Dean of Undergraduate Men*

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DOZIER, JOHN M., A.B.

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*(Student Admissions)*

2041 Englewood Avenue

\*OSTWALT, JAY HAROLD

*Assistant Director, Testing Bureau*

Duke University

## GRADUATE AND PROFESSIONAL SCHOOLS

GROSS, PAUL M., B.S., A.M., Ph.D.

*Dean of the Graduate School of Arts and Sciences*

Hope Valley

ROBERT, JOSEPH CLARKE, A.B., A.M., Ph.D.

*Associate Dean of the Graduate School of Arts and Sciences*

1102 B Street

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*Dean of the Divinity School*

1020 Urban Avenue

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.

*Dean Emeritus of the Divinity School*

Duke University

SHEPHERD, HAROLD, A.B., J.D., LL.D.

*Dean of the School of Law*

Cole Mill Road

DAVISON, WILBURT CORNELL, A.B., B.A., B.Sc., A.M., D.Sc., M.D., LL.D.

*Dean of the School of Medicine*

Hope Valley

WILSON, FLORENCE K., R.N., B.A., M.A.

*Dean of the School of Nursing*

Faculty Apartments

KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D.

*Dean of the School of Forestry*

4 Sylvan Road

\* Resigned, August 31, 1948.

PROCTOR, ARTHUR MARCUS, A.B., A.M., Ph.D. <i>Director of the Summer Session</i>	Myrtle Drive
HUMM, HAROLD JUDSON, B.A., M.A., Ph.D. <i>Director of the Duke Marine Laboratory</i>	Marine Station, Beaufort, N. C.
COLEMAN, MARGARET, A.B., A.M. <i>Recorder, Trinity College</i>	918 Urban Avenue
EHLHARDT, GEORGE B., A.B., B.D. <i>Registrar, Divinity School</i>	Faculty Apartments
KENDALL, HELEN MILDRED, A.B. <i>Registrar, School of Law</i>	8 Aycock Apartments
SEABOLT, LOUISE, A.B., A.M. <i>Recorder, Woman's College</i>	Faculty Apartments

### INSTRUCTIONAL STAFF

*This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.*

ACOMB, FRANCES DOROTHY, (1945) A.B., A.M., Ph.D. <i>Assistant Professor of History</i>	Faculty Apartments
ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D. <i>Professor of Psychology</i>	Cornwallis Road
ADOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D. <i>Professor of Botany</i>	1413 N. Duke Street
ADKINS, TROGLER F., (1938) M.D. <i>Instructor in Obstetrics and Gynecology</i>	218 Sprunt Street
ALLEN, CLARK LEE, (1941-43; 1945, 1947) A.B., A.M., Ph.D. <i>Associate Professor of Economics</i>	1813 Hillcrest Drive
ALYEA, EDWIN PASCAL, (1930) S.B., M.D. <i>Professor of Urology</i>	Hope Valley
ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D. <i>Associate Professor of Botany</i>	2020 Sunset Avenue
ANDERSON, WILLIAM BANKS, (1930) A.B., M.D. <i>Associate Professor of Surgery in charge of Ophthalmology</i>	502 E. Forest Hills Blvd.
ARCHIE, WILLIAM COUNCIL, (1946) A.B., A.M. <i>Assistant Professor of Romance Languages</i>	2113 Sprunt Street
ARENA, JAY MORRIS, (1933) B.S., M.D. <i>Assistant Professor of Pediatrics</i>	2032 Club Boulevard
ARNOLD, RALPH A., (1947) B.A., M.D. <i>Assistant Professor of Otolaryngology and Ophthalmology</i>	1013 Broad Street
ASHBROOK, ARTHUR G., JR., (1947) B.S., Ph.D. <i>Assistant Professor of Economics</i>	Faculty Apartment Annex
ATWELL, ROBERT J., (1948) A.B., M.D. <i>Instructor in Medicine</i>	University Apartments
ATWOOD, THEODORE W., (1934) A.B., D.M.D. <i>Associate in Dentistry</i>	Allenton Apartments
AYCOCK, THOMAS MALCOLM, (1937) B.S., M.S. <i>Associate Professor of Physical Education</i>	University Apartments
BAILEY, JOSEPH R., (1946) A.B., M.A., Ph.D. <i>Assistant Professor in Zoology</i>	No. 11 Duke University Apts., Markham and Fifth

- BAKER, HORACE W., JR., (1948) A.B., M.D.  
*Instructor in Surgery* Duke Hospital
- BAKER, LENOX DIAL, (1937) M.D.  
*Professor of Orthopaedic Surgery* Hope Valley
- BANHAM, KATHARINE MAY, (1946) B.S., M.A., Ph.D.  
*Associate Professor of Psychology* 307 Watts Street
- BAREFOOT, SHERWOOD W., (1946) B.S., M.D.  
*Instructor in Dermatology and Syphilology* Duke Hospital
- BARRERAS, LUIS A., (1947) B.A., M.D.  
*Instructor in Anesthesiology* Duke Hospital
- BAUM, PAUL FRANKLIN, (1922) A.B., A.M., Ph.D.  
*Professor of English* 112 Pinecrest Road
- BAYLIN, GEORGE JAY, (1939) A.B., M.D.  
*Associate Professor of Radiology and Associate in Anatomy* 2260 Cranford Road
- BEACH, WALDO, (1946) A.B., B.D., Ph.D.  
*Associate Professor of Christian Ethics* 100 Vineyard Street
- BEAL, JAMES ALLEN, (1939) B.S., M.S., Ph.D.  
*Professor of Forest Entomology* 2232 Cranford Road
- BEARD, DOROTHY WATERS, MRS., (1938) R.N.  
*Research Associate in Surgery* Hillsboro, N. C.
- BEARD, JOSEPH W., (1937) B.S., M.D.  
*Professor of Surgery in charge of Experimental Surgery* Hillsboro, N. C.
- BENNETT, BASIL T., (1946) M.D.  
*Associate in Neuropsychiatry* Duke Hospital
- BENNETT, PAUL R., (1948) B.A., M.A.  
*Instructor in English* Powe Apartments
- BENNETT, ROBERT L., (1946) M.D.  
*Lecturer in Physical Medicine* Duke Hospital
- BERNHEIM, FREDERICK, (1930) A.B., Ph.D.  
*Professor of Pharmacology* Woodridge Drive, Rockwood
- BERNHEIM, MARY LILIAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Biochemistry* Woodridge Drive, Rockwood
- BERRY, EDWARD WILLARD, (1936) A.B., Ph.D.  
*Associate Professor of Geology* 1003 N. Gregson Street
- BEVINGTON, HELEN SMITH, MRS., (1943) Ph.B., M.A.  
*Assistant Professor of English* Guess Road
- BEVINGTON, MERLE MOWBRAY, (1942) A.B., M.A., Ph.D.  
*Associate Professor of English* Guess Road
- BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.  
*Professor of Chemistry* 131 Pinecrest Road
- BINKLEY, MARGARET B., (1946) R.N., B.S.  
*Assistant Professor of Nursing Education* Duke Hospital
- BIRD, HAROLD CRISIUS, (1926) Ph.B., C.E.  
*Professor of Civil Engineering* 1209 Virginia Avenue
- BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.  
*Professor of Accounting* 135 Pinecrest Road
- BLACKBURN, WILLIAM MAXWELL, (1926) A.B., B.A., M.A., Ph.D.  
*Associate Professor of English* Duke University

- BLACK-SCHAFFER, BERNARD, (1945) B.Sc., M.D.  
*Assistant Professor of Pathology* Piedmont Apartments
- BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.  
*Professor of Botany* 922 Demerius Street
- BOLICH, WILLIAM BRYAN, (1927) A.B., B.A. (Juris.), M.A., B.C.L.  
*Professor of Law* Hope Valley
- BOLMEIER, EDWARD C., (1948) A.B., M.A., Ph.D.  
*Associate Professor of Education* Faculty Apartments
- BOLUS, MICHAEL, (1946) B.S., M.D.  
*Instructor of Dermatology and Syphilology* Duke Hospital
- BONE, ALLAN HADLEY, (1944) B.A., M.M.  
*Assistant Professor of Music* 2314 Club Boulevard
- BONE, FRANK C., (1948) A.B., M.D.  
*Instructor in Medicine* 1023 W. Trinity Avenue
- \*BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Zoology* 1307 Alabama Avenue
- BOOKHOUT, ELIZABETH CIRCLE, MRS., (1932-43; 1945) A.B., M.S.  
*Associate Professor of Physical Education* 1307 Alabama Avenue
- BOSLEY, HAROLD AUGUSTUS, (1947) A.B., B.D., Ph.D., D.D.  
*Professor of Philosophy of Religion and Dean of Divinity School*  
 1020 Urban Avenue
- BOUTWELL, FREDERICK KENT, (1946) B.S. in M.E.  
*Visiting Instructor in Mechanical Engineering* 618 Ruby Street
- BOWMAN, FRANCIS E., (1945) A.B., M.A., Ph.D.  
*Associate Professor of English* 1503 Alabama Avenue
- BRADSHAW, CHARLES KILGO, (1939) A.B., M.A., Ph.D.  
*Assistant Professor of Chemistry* 2318 Englewood Avenue
- BRADWAY, JOHN SAEGER, (1931) A.B., A.M., LL.B.  
*Professor of Law* 2621 Stuart Drive
- BRINKLEY, ROBERTA FLORENCE, (1947) A.B., A.M., Ph.D.  
*Professor of English and Dean of the Woman's College* East Campus
- BROOME, ROBERT A., JR., (1948) M.D.  
*Instructor in Medicine* 410 Watts Street
- BROUSE, ALBERT J., (1947) A.B., A.M.  
*Instructor in English* 923½ Dacian Avenue
- BROWN, CHANDLER WILCOX, (1947) B.S.  
*Instructor in Civil Engineering* 818 Wilkerson Avenue
- BROWN, FRANCES, (1931) A.B., Ph.D.  
*Associate Professor of Chemistry* 205 Jones Street
- BROWN, IVAN W., JR., (1940) A.B., B.S., M.D.  
*Associate in Surgery* University Apartments
- BROWN, W. G., (1947) A.B.  
*Instructor in Preventive Medicine and Public Health* Duke Hospital
- BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D., LL.D.  
*Professor of Educational Psychology* Hope Valley
- BROWNLEE, WILLIAM H., (1948) A.B., Ph.D.  
*Instructor of Biblical Literature* 805½ Third Street

\* Absent on sabbatical leave, second semester, 1948-49.



- BRYSON, EDWIN CONSTANT, (1931) LL.B.  
*Associate Professor of Law* 1023 Sycamore Street
- BUGG, EVERETT I., JR., (1947) B.S., M.D.  
*Instructor in Orthopaedics* 2806 Legion Avenue
- BURNHAM, HILDA CLAIRE, (1940) R.N.  
*Instructor in Principles and Practice of Nursing and  
Instructor of Nursing Education* Duke Hospital
- CALLAWAY, JASPER LAMAR, (1937) B.S., M.D.  
*Professor of Dermatology and Syphilology* 828 Anderson Street
- CAMERON, EDMUND McCULLOUGH, (1926) A.B.  
*Director of Physical Education and Athletics,  
and Assistant Coach of Football* Hope Valley
- CANINE, WILLIAM L., JR., (1947) A.B., M.A. No. 7 Duke University Apts.,  
*Instructor in English* Markham and Fifth
- CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M., D.D.  
*Ivey Professor of History of Religion and Missions* 803 Second Street
- CARGILL, WALTER HURT, (1948) M.D.  
*Instructor in Medicine* Duke Hospital
- CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.  
*Professor of Mathematics* 2303 Cranford Road
- CARPENTER, DAVID WILLIAMS, (1929) A.B., A.M., Ph.D.  
*Professor of Physics* 137 Pinecrest Road
- CARR, JOHN WINDER, JR., (1926) A.B., A.M., Ph.D.  
*Professor of Education* 926 Monmouth Avenue
- \*CARROLL, EBER MALCOLM, (1932) A.B., A.M., Ph.D.  
*Professor of History* University Apartments
- CARROLL, R. CHARMAN, (1943) R.N., A.B., M.D.  
*Associate in Neuropsychiatry* Faculty Apartments
- CARROLL, ROBERT SPROUL, (1941) M.D.  
*Lecturer in Neuropsychiatry* Asheville, N. C.
- CARTER, BAYARD, (1931) A.B., B.A., M.A., M.D.  
*Professor of Obstetrics and Gynecology* 2111 Myrtle Drive
- CASTELLANO, HELEN, MRS., (1947) A.B., A.M.  
*Instructor in Romance Languages* 805 Third Street
- CASTELLANO, JUAN R., (1947) B.S., Ph.D.  
*Associate Professor of Romance Languages* 805 Third Street
- CHEEK, ROMA S., MRS., (1947) A.B., M.A., Ph.D.  
*Instructor in Political Science* 227 East Rosemary Street, Chapel Hill, N. C.
- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.  
*Professor of Education* 1019 West Markham Avenue
- CHURCH, MARGARET, (1946) A.B., A.M., Ph.D.  
*Instructor in English* Cole Mill Road
- CLAMP, JESSE CARL, (1948) A.B., M.A.  
*Instructor in Economics* 306 Northwood Circle
- CLARK, ELON HENRY, (1934)  
*Assistant Professor of Medical Art and Illustration* Guess Road

\* Absent on leave, Government Service, 1948-49.

- CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D.  
*Professor of New Testament* 1308 Markham Avenue
- CLELAND, JAMES T., (1945) M.A., B.D., Th.M.  
*Professor of Homiletics* 2117 Myrtle Drive
- CLYDE, PAUL HIBBERT, (1937) A.B., A.M., Ph.D.  
*Professor of History* Cole Mill Road
- COHEN, LOUIS DAVID, (1946) B.A., M.A.  
*Associate in Clinical Psychology* 2810 Elgin Street
- COILE, THEODORE STANLEY, (1935) B.S.F., M.F., Ph.D.  
*Professor of Forest Soils* Hillsboro Road
- COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.  
*Professor of Political Science* 7 Sylvan Road
- COLLINS, JOHN P., (1948) A.B., M.D.  
*Instructor in Surgery* Duke Hospital
- COLTON, JOEL G., (1947) A.B., M.S., M.A.  
*Instructor in History* University Apartments
- CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.  
*Professor of Mycology and Associate Professor of Bacteriology* Old Cornwallis Road
- COOPER, ALBERT DERWIN, (1934) A.B., M.D.  
*Instructor in Medicine* 1006 Dacian Avenue
- \*COWPER, FREDERICK AUGUSTUS GRANT, (1918) A.B., A.M., Ph.D.  
*Professor of Romance Languages* 1017 Dacian Avenue
- COX, ALBERT W., (1948) B.S., Lieutenant, U. S. Navy  
*Assistant Professor of Naval Science* 2302 Erwin Road
- CREADICK, ROBERT NOWELL, (1946) A.B., M.D.  
*Assistant Professor of Obstetrics and Gynecology* 2226 Elba Street
- \*CRUM, MASON, (1930) A.B., Ph.D.  
*Associate Professor of Biblical Literature* 912 Anderson Street
- CURRIE, BRAINERD, (1946) A.B., LL.B., LL.M.  
*Professor of Law* Hope Valley Road
- CURTISS, JOHN SHELTON, (1945) A.B., A.M., Ph.D.  
*Associate Professor of History* 718 Vickers Avenue
- CUSHMAN, ROBERT E., (1945) A.B., B.D., Ph.D.  
*Professor of Systematic Theology* 2122 Englewood Avenue
- CUTTINO, JOHN TINDALL, (1946) B.S., M.D.  
*Associate in Pathology* Morreene Dairy Road
- CUYLER, W. KENNETH, (1938) B.A., M.A., Ph.D.  
*Research Instructor in Obstetrics and Gynecologic Laboratory Technics* Pickett Road
- DAL, BINGHAM, (1943) A.B., M.A., Ph.D.  
*Lecturer in Psychiatry; Professor of Psychology (Part-time)* 1010 Monmouth Avenue
- †DANN, WILLIAM JOHN, (1934) B.Sc., Ph.D., D.Sc.  
*Professor of Nutrition* 113 Pinecrest Road
- DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.  
*Associate Professor of Romance Languages* 2248 Cranford Road
- DAVISON, WILBURT CORNELL, (1927) A.B., B.A., B.Sc., M.A., M.D., D.Sc., LL.D.  
*Professor of Pediatrics and Dean of the School of Medicine* Hope Valley

\* Absent on sabbatical leave, first semester, 1948-49.

† Died, December 6, 1948.

- DEES, JOHN ESSARY, (1939) B.S., M.D.  
*Associate Professor of Urology* 413 Carolina Circle
- DEES, SUSAN COONS, MRS., (1939) A.B., M.S., M.D.  
*Assistant Professor of Pediatrics* 413 Carolina Circle
- DEMOREST, JEAN-JACQUES, (1948) B.A., M.A.  
*Instructor in Romance Languages* Brookside Apts.,  
821 Demerius Street
- DEWALD, JACOB FREDERICK, (1948) B.S., Ph.D.  
*Instructor in Chemistry* 509 S. Duke Street
- DE VYVER, FRANK TRAVER, (1935) A.B., A.M., Ph.D.  
*Professor of Economics* 8 Sylvan Road
- DICK, MACDONALD, (1932) B.A., M.A., M.D.  
*Assistant Professor of Physiology and Pharmacology  
and Associate in Medicine* Hope Valley Road
- DICKS, RUSSELL L., (1948) A.B., B.D., D.D.  
*Associate Professor of Pastoral Care* 2308 Prince Street
- DORT, WAKEFIELD, (1948) B.S., M.S.  
*Instructor in Geology* Duke University
- DOW, MARIE, MME., (1934) L. ès L., M.A.  
*Instructor in Romance Languages* 2252 Cranford Road
- DOW, NEAL, (1934) A.B., M.A., Ph.D.  
*Assistant Professor of Romance Languages* 2252 Cranford Road
- DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.  
*Associate Professor of Mathematics* 309 Francis Street
- DUKE, KENNETH LINDSAY, (1940) A.B., Ph.D.  
*Assistant Professor of Anatomy* 701 Club Boulevard
- EADIE, GEORGE SHARP, (1930) M.A., M.B., Ph.D.  
*Professor of Physiology and Pharmacology* Hope Valley
- EAGLE, WATT WEEMS, (1930) A.B., M.D.  
*Associate Professor of Surgery in charge of Otolaryngology* 804 Anderson Street
- EARLE, RALPH, JR., (1948) B.S., Captain, U. S. Navy  
*Professor of Naval Science* 2101 Myrtle Drive
- EASLEY, ELEANOR BEAMER, MRS., (1934) B.A., M.A., M.D.  
*Associate in Obstetrics and Gynecology* Guess Road
- EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.  
*Associate Professor of Education* Guess Road
- ECKHOFF, PAUL S., (1948) A.B., M.B.A., LL.B., Lieutenant, USNR  
*Assistant Professor of Naval Science* Demerius Street
- EGERTON, FRANKLIN NICHOLAS, (1945) A.B., A.M., E.E.  
*Assitsant Professor of Electrical Engineering* 411 N. Gregson Street
- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.  
*Professor of Mathematics* 1003 Lamond Avenue
- ELLIS, LEON H., (1947) A.B., LL.B., Ph.D.  
*Lecturer in Political Science* Faculty Apartment Annex
- ELLIS, SYDNEY, (1946) B.S., M.A., Ph.D.  
*Assistant Professor of Pharmacology* 403 Belvin Avenue
- ENGEL, FRANK LIBMAN, (1947) A.B., M.D.  
*Assistant Professor of Medicine* 2111 Pershing Street

- EPPELSON, JESSE HARRISON, (1930) B.S.  
*Instructor in Preventive Medicine and Public Health* 1601 Hermitage Court
- ERICKSON, CYRUS CONRAD, (1937) B.S., B.M., M.D.  
*Associate Professor of Pathology* 806 Forest Hills Boulevard
- ESSELBORN, VIRGINIA M., (1947) A.B., M.D.  
*Instructor in Obstetrics and Gynecology* Duke Hospital
- EVERETT, JOHN WENDELL, (1932) A.B., Ph.D.  
*Associate Professor of Anatomy* 2605 University Drive
- FERGUSON, ARTHUR BOWLES, (1939) A.B., Ph.D.  
*Assistant Professor of History* 209 Woodridge Drive
- FERGUSON, GEORGE BURTON, (1937) M.Sc. (Med.), M.D.  
*Associate in Bronchoscopy* Beverly Apartments
- FLOWER, ARTHUR H., JR., (1948) A.B., M.D.  
*Instructor in Dermatology and Syphilology* 2617 Hillsboro Road
- FORBUS, WILEY DAVIS, (1930) A.B., M.D.  
*Professor of Pathology* Hope Valley
- FOX, HERBERT JUNIUS, (1940) M.D.  
*Associate in Medicine* Indian Trail
- FRENCH, DAVID P., (1947) A.B., A.M.  
*Instructor in English* Faculty Apartments
- GARDINER, LILLIAN A., (1947) R.N., B.S., M.S.  
*Visiting Professor of Nursing Education* Richmond, Va.
- GARDNER, CLARENCE ELLSWORTH, JR., (1930) A.B., M.D.  
*Professor of Surgery* Hope Valley
- GARRETT, JAMES RICHARD, (1948) B.S., A.M.  
*Visiting Instructor in Mathematics* 305 Northwood Circle
- GAULT, LUCILE D., MRS., (1947) B.A., M.A.  
*Visiting Instructor in Romance Languages* Greensboro Road,  
 Chapel Hill, N. C.
- GERGEN, JOHN JAY, (1936) A.B., A.M., Ph.D.  
*Professor of Mathematics* 2803 Nation Avenue
- GILBERT, ALLAN, (1920) B.A., A.M., Ph.D.  
*Professor of English* 516 Carolina Circle
- GILBERT, KATHARINE EVERETT, MRS., (1930) A.B., A.M., Ph.D., Litt.D.  
*Professor of Philosophy* 516 Carolina Circle
- GIVAN, WALKER F., (1947) B.A., M.A.  
*Instructor in History* No. 4 Duke University Apts.,  
 Fifth and Markham
- GLENN, JOHN C., (1949) M.D.  
*Associate in Radiology* Duke Hospital
- GOFFARD, SIDNEY JAMES, (1947) A.B., M.A.  
*Instructor in Psychology* 808 N. Gregson Street
- GOHDES, CLARENCE, (1930) A.B., A.M., Ph.D.  
*Professor of American Literature* 2614 Stuart Drive
- GORDY, WALTER, (1946) A.B., M.A., Ph.D.  
*Professor of Physics* 212 Vineyard Street
- GRAHAM, WILLIAM ALEXANDER, (1939) A.B., M.D.  
*Instructor in Obstetrics and Gynecology* Beverly Apartments
- GRASTY, GEORGE MASON, (1946) A.B., M.A.  
*Instructor in German* Duke University



- GRATTAN, MARTHA ZANT, MRS., (1947) A.B.  
*Instructor in Speech* 2013 James Street
- \*GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.  
*Professor of Zoology* 124 Pinecrest Road
- GREENHILL, MAURICE H., (1940) A.B., M.D.  
*Associate Professor of Neuropsychiatry* Hope Valley
- GREULING, EUGENE, (1948) Ph.D.  
*Assistant Professor of Physics* Duke University
- GRIMSON, KEITH S., (1942) B.A., B.S., M.D.  
*Associate Professor of Surgery* Hope Valley
- GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.  
*William Howell Pegram Professor of Chemistry and Dean of Graduate School of Arts and Sciences* Hope Valley
- GROUT, JULIA REBECCA, (1924) A.B., M.S.  
*Associate Professor of Physical Education, Woman's College* 207 Jones Street
- HAINES, HOWARD N., (1943) B.S.  
*Visiting Instructor in Engineering Drawing* 2307 Club Boulevard
- HAINES, WILLIAM E., (1948) A.B., LL.B.  
*Instructor in Economics* 101 E. Markham Avenue
- HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.  
*Professor of Physiology* 122 Pinecrest Road
- HALL, LOUISE, (1931) B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne  
*Associate Professor of Architecture* 210 Faculty Apartments
- HALL, WILLIAM HOLLAND, (1915) A.B., A.M., B.C.E., M.S.C.E.  
*Professor of Engineering and Dean of the College of Engineering* 922 Urban Avenue
- †HALLOWELL, JOHN HAMILTON, (1942) A.B., A.M., Ph.D.  
*Associate Professor of Political Science* 804 Fourth Street
- HAMBLIN, EDWIN CROWELL, (1931) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology, and Professor of Endocrinology* 810 Forest Hills Boulevard
- HAMILTON, JOHN W., (1948) A.B., A.M.  
*Instructor in Romance Languages* 2252 Cranford Road
- HAMILTON, WILLIAM BASKERVILLE, JR., (1936) A.B., A.M., Ph.D.  
*Associate Professor of History* 2256 Cranford Road
- HANDLER, PHILIP, (1939) B.S., M.S., Ph.D.  
*Associate Professor of Biochemistry and Nutrition* 2307 Sprunt Street
- HANNA, FRANK A., (1948) B.A., Ph.M., Ph.D.  
*Associate Professor of Economics* 2239 Cranford Road
- HANSEN-PRÜSS, OSCAR CARL EDVARD, (1930) A.B., M.D.  
*Professor of Medicine in charge of Clinical Microscopy* 3 Surry Road, Hope Valley
- HANSON, EARL, (1946) A.B., A.M., Ph.D.  
*Assistant Professor of Political Science* No. 2 Duke University Apts., Markham and Fifth Streets
- HARDY, WILLIAM MARION, (1946) B.S. in M.E.  
*Instructor in Mechanical Engineering* 1919 Club Boulevard

\* Absent on sabbatical leave, first semester, 1948-49.

† Absent on sabbatical leave, second semester, 1948-49.



- HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D., Sc.D.  
*Professor of Zoology* 811 Watts Street
- HARRAR, ELWOOD SCOTT, (1936) B.S., M.S., Ph.D.  
*Professor of Wood Technology* 2228 Cranford Road
- HARRIS, JEROME SYLVAN, (1936) A.B., M.D.  
*Associate Professor of Pediatrics and Biochemistry* 1017½ Gloria Avenue
- HART, DERYL, (1930) A.B., A.M., M.D.  
*Professor of Surgery* Duke University Road and Highway 751
- HART, HORNE LL NORRIS, (1938) A.B., M.A., Ph.D.  
*Professor of Sociology* Cranford Road
- HARWELL, GEORGE CORBIN, (1935; 1947) A.B., A.M., Ph.D.  
*Assistant Professor of English* Faculty Apartments
- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.  
*Professor of Physics* 708 Buchanan Boulevard
- HATLEY, MARVIN THOMAS, JR., (1946) B.S. in E.E.  
*Visiting Instructor in Electrical Engineering* Duke University
- HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.  
*Professor of Chemistry* 1020 Rose Hill Avenue
- HENDRIX, JAMES PAISLEY, (1938) B.S., M.A., M.D.  
*Assistant Professor of Medicine* 144 Pinecrest Road
- HESTER, WILLIAM, (1947) A.B., A.M., Ph.D.  
*Instructor in Psychology* Duke University
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.  
*Professor of Anatomy* Hope Valley
- HICKAM, JOHN BAMBER, (1947) A.B., M.D.  
*Assistant Professor of Medicine* 2138 Myrtle Drive
- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., S.T.B., A.M., Ph.D.  
*Professor of Preaching and the Psychology of Religion* 921 Markham Avenue
- HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Mathematics* 2712 Legion Avenue
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.  
*Associate Professor of Chemistry* Dixon Road
- HIRSCHMANN, VICTOR R., (1947) M.D.  
*Instructor in Dermatology and Syphilology* Duke Hospital
- HITCH, JOSEPH M., (1946) A.B., M.S., M.D.  
*Instructor in Dermatology and Syphilology* Duke Hospital
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Chemistry* 115 Pinecrest Road
- HOHMAN, LESLIE BENJAMIN, (1946) A.B., M.D.  
*Professor of Neuropsychiatry* 616 Ruby Street
- HOLLAND, BERNARD C., (1948) B.S., M.D.  
*Instructor in Medicine* 711 Anderson Street
- HOLLAND, RAY WALTER, (1947) B.S. in M.E.  
*Instructor in Mechanical Engineering* 704 Buchanan Boulevard
- HOLLEY, I. B., (1947) B.A., M.A., Ph.D.  
*Instructor in History* No. 6 Duke University Apts.,  
 Markham and Fifth

- HOLTON, FRANCES, (1947) B.S., M.A.  
*Instructor in Physical Education* 407 Erwin Apartments
- HOOK, ARNOLD EVANS, (1945) B.S., M.S., Ph.D.  
*Research Associate in Surgery* 1621 Avondale Drive
- HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.  
*Professor of Economics* 1702 Duke University Road
- HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.  
*Professor Emeritus of Law* Duke University
- HORN, EDWARD C., (1946) B.S., A.M., Ph.D.  
*Assistant Professor of Zoology* 2509 Cascadilla Street
- HOWARD, HENRY LEE, (1947) M.D.  
*Instructor in Pathology* Duke Hospital
- HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.  
*Professor of American Literature* 121 Pinecrest Road
- HUMPHREY, DON DOUGAN, (1945) A.B., Ph.D.  
*Professor of Economics* 2802 Legion Avenue
- HUNTER, WANDA SANBORN, MRS., (1947) A.B., M.S., Ph.D.  
*Associate Professor of Zoology* 202 Faculty Apartments
- IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon.), M.A., Ph.D.  
*Professor of English* 2707 Legion Avenue
- IRWIN, CHARLES EDWIN, (1946) M.D.  
*Lecturer in Orthopaedic Surgery* Duke Hospital
- JACOBS, JULIAN E., (1947) M.D.  
*Lecturer in Orthopaedics* Duke Hospital
- JARNAGIN, MILTON PRESTON, JR., (1948) A.B., A.M.  
*Visiting Instructor in Mathematics* Duke University
- JENKINS, MARIANNA, (1948) A.B., A.M., Ph.D.  
*Visiting Assistant Professor of Art* Chelsea Circle, Hope Valley
- JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.  
*Professor of Sociology* 143 Pinecrest Road
- JOERG, FREDERICK C., (1947) B.S., M.B.A.  
*Assistant Professor of Economics* Mordecai House, East Campus
- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.  
*Assistant Professor of Zoology* 106 Turrentine Road
- JONES, BARNEY, (1948) A.B., B.D.  
*Instructor in Religion* 820 Demerius Street
- JONES, HENRY HUNTER, (1943) A.B., C.E.  
*Visiting Assistant Professor of Engineering* 129 Pinecrest Road
- JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.  
*Assistant Professor of English* 147 Pinecrest Road, Corner U. S. Highway No. 751
- JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.  
*Professor of Romance Languages* 117 Pincrest Road
- KAISER, HELEN LOUISE, (1943) R.P.T.  
*Instructor in Physical Therapy, in charge of Division of Physical Therapy* 208 Faculty Apartments
- KANTNER, GEORGE BLACK, (1946) B.S., Major, U. S. Marine Corps  
*Assistant Professor of Naval Science* 1012 Buchanan Boulevard

- KEMPNER, WALTER, (1934) M.D.  
*Associate Professor of Medicine* 1505 Virginia Avenue
- KENNEDY, PHILIP EDWARD, (1947) A.B., A.M. No. 3 Duke University Apts.,  
*Instructor in English* Markham and Fifth
- KENYON, VAN LESLIE, JR., (1945) B.S.  
*Assistant Professor of Mechanical Engineering* Route 3,  
Hillsboro, N. C.
- KING, HERBERT ARTHUR, (1948) A.B., M.D.  
*Instructor in Medicine* 610 Colgate Street
- KLENZ, WILLIAM, (1947) A.B.  
*Assistant Professor of Music* Duke University
- KLIGER, SAMUEL, (1946) A.B., M.A., Ph.D.  
*Assistant Professor of English* Faculty Apartment Annex
- KOCH, SIGMUND, (1942-1947; 1948) A.B., A.M., Ph.D.  
*Associate Professor of Psychology* Horton Road
- KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.  
*Professor of Silviculture and Dean of the School of Forestry* 4 Sylvan Road
- KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.  
*Professor of Botany* 2251 Cranford Road
- KRAMER, ROBERT, (1947) A.B., LL.B.  
*Associate Professor of Law* Guess Road
- KRAYBILL, EDWARD K., (1939) B.S. in E.E., M.S. in E.E.  
*Assistant Professor of Electrical Engineering* 900 Dacian Avenue
- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.  
*Professor of German* 2118 Englewood Avenue
- KUDER, G. FREDERICK, (1948) A.B., M.A., Ph.D.  
*Professor of Psychology* Hope Valley
- KUNKLE, E. CHARLES, (1948) B.A., M.D.  
*Assistant Professor of Medicine* Demerius Street
- LA BARRE, WESTON, (1946) A.B., Ph.D.  
*Associate Professor of Anthropology* 1311 Alabama Avenue
- LANDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D.  
*Associate Professor of Economics* 1514 Edgevale Road
- \*LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.  
*Professor of History* Hope Valley
- LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.  
*Professor of History* 1108 Monmouth Avenue
- LAROE, RACHEL, (1946) A.B., M.A.  
*Instructor in Physics* 1204 Markham Avenue
- LARSH, JOHN E., JR., (1943) A.B., M.S., Sc.D.  
*Associate in Parasitology* Duke Hospital
- LATTY, ELVIN REMUS, (1937) B.S., J.D., J.Sc.D.  
*Professor of Law* Hope Valley
- LEARY, LEWIS, (1941) B.S., A.M., Ph.D.  
*Associate Professor of American Literature* 2106 Woodrow Street
- LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admin., M.A., Ph.D.  
*Associate Professor of Economic Geography* 123 Pinecrest Road

\* Absent on sabbatical leave, second semester, 1948-49.

- LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.  
*Associate Professor of Philosophy* 107 Pinecrest Road
- LEWIS, HAROLD W., (1946) B.S., M.A.  
*Visiting Instructor in Physics* 1005 Carolina Avenue
- LEWIS, MODENA, (1933) B.S., M.A.  
*Associate Professor of Physical Education and Dance* 407 Erwin Apartments
- LEWIS, RALPH ELTON, (1941) B.S., M.S. in M.E.  
*Assistant Professor of Mechanical Engineering* 1401 Alabama Avenue
- LIVENGOOD, CHARLES H., JR., (1946) A.B., LL.B.  
*Associate Professor of Law* Hope Valley
- LLERENA, MARIO, (1948) B.A., Doctor en Filosofía y Letras (Havana)  
*Instructor in Romance Languages* Duke University Apts.,  
 Markham and Fifth
- LÖWENBACH, HANS, (1940) M.D.  
*Associate Professor of Neuropsychiatry and Physiology* Fayetteville Road
- LONDON, ARTHUR HILL, JR., (1932) B.S., M.D.  
*Associate in Pediatrics* Corner Shepherd and Wells Streets
- \*LONDON, FRITZ, (1938) Ph.D., Docteur ès Sciences of the University of Paris  
*Professor of Theoretical Chemistry* 1508 Oakland Avenue
- LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.  
*Professor of Law* 2016 Club Boulevard
- †LUNDEBERG, OLAV K., (1931) A.B., A.M., Ph.D.  
*Professor of Romance Languages* 127 Pinecrest Road
- LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.  
*Professor of Psychology* 803 Second Street
- LYMAN, RICHARD SHERMAN, (1940) B.A., M.D.  
*Professor of Neuropsychiatry* 812 Anderson Street
- McBRYDE, ANGUS, (1931) B.S., M.D.  
*Associate Professor of Pediatrics* 410 Forest Hills Blvd., East
- McCOLL, JEAN E., (1946) B.S.  
*Instructor in Physical Education* 213 Faculty Apartments
- McCRACKEN, JOSEPH, (1946) A.B., M.D.  
*Instructor in Medicine* 126 Pinecrest Road
- McCRACKEN, MAUDE, (1941) A.B., M.S.  
*Associate in Medical Social Service* 907 N. Mangum Street
- McCREA, FORREST DRAPER, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Physiology and Pharmacology* 1023 Demerius Street
- McDERMOTT, MALCOLM, (1930) A.B., LL.B.  
*Professor of Law* Orange County
- McHUGH, GELOLO, (1946) A.B., A.M., Ph.D.  
*Assistant Professor of Psychology* Erwin Road
- McKENZIE, LIONEL, (1948) A.B., M.A.  
*Assistant Professor of Economics* Demerius Street
- McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.  
*Assistant Professor of Philosophy* 1408 Duke University Road

\* Absent on sabbatical leave, second semester, 1948-49.

† Died, August 18, 1948.



- MACMILLAN, LOUIS DE ROSSET, (1947) A.B., C.P.A.  
*Visiting Assistant Professor of Accounting* Duke University
- MAGGS, DOUGLAS BLOUNT, (1930) A.B., J.D., S.J.D.  
*Professor of Law* Hope Valley
- \*MALONE, THOMAS PATRICK, (1946) A.B., Ph.D.  
*Assistant Professor of Psychology* 101 N. Driver Avenue
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.  
*Associate Professor of History and Dean of Freshmen*  
Myrtle Drive, West Campus
- MANNING, ISAAC HALL, JR., (1939) A.B., M.D.  
*Associate in Medicine* 2311 Wilson Street
- MARKEE, JOSEPH ELDRIDGE, (1943) B.S., Ph.D.  
*Professor of Anatomy* 1015 Demerius Street
- MARKMAN, SIDNEY D., (1947) A.B., Ph.D. No. 10 Duke University Apts.,  
*Assistant Professor of Art* Markham and Fifth Streets
- MARTIN, DONALD STOVER, (1932) A.B., M.D., M.P.H.  
*Professor of Preventive Medicine and Public Health*  
*and Associate Professor of Bacteriology* 2208 Pershing Street
- MARTIN, ELSIE W., MRS., (1930) A.B., M.S.  
*Professor of Dietetics* 206 Faculty Apartments, East Campus
- MARTIN, RUTH CAMPBELL, (1944) B.A., M.D. University Apartments  
*Assistant Professor of Surgery in charge of Anesthesiology*
- MATTHES, MINETTA, (1947) B.A.  
*Instructor in Romance Languages* Faculty Apartments
- MAXWELL, WILLIAM CARY, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of German* 142 Pinecrest Road
- MEIER, OTTO, JR., (1934) B.S. in E.E., M.S., E.E.  
*Associate Professor of Electrical Engineering* 916 Monmouth Avenue
- MELTON, FRANK M., (1948) A.B., M.D.  
*Associate in Dermatology* 318 Clark Street
- MENEFEE, ELIJAH EUGENE, JR., (1940) B.S., M.D.  
*Assistant Professor of Medicine* 2314 Woodrow Street
- MICKEY, HAROLD CHANDLER, (1936) B.A.  
*Associate in Hospital Administration* 2223 Cranford Road
- MILLER, OSCAR LEE, (1946) M.D.  
*Lecturer in Orthopaedic Surgery* Duke Hospital
- MITCHELL, FRANK KIRBY, (1926) A.B., A.M.  
*Associate Professor of English* Swift Avenue
- MOODY, JAMES D., (1948) A.B., M.D.  
*Instructor in Surgery* Duke Hospital
- MORGAN, RALPH PIERPONT, JR., (1946) B.S. in M.E.  
*Visiting Instructor in Mechanical Engineering* 2315 Huron Circle
- MUELLER, EARL GEORGE, (1945) B.M., A.M., M.F.A.  
*Assistant Professor of Art* 203 Northwood Circle
- MUELLER, JULIA WILKINSON, MRS., (1939-41; 1946) B.M., M.A.  
*Instructor in Music* 203 Northwood Circle

\* Resigned, June 30, 1948.



- MURPHY, RICHARD J. F., (1948) B.Sc., M.D., C.M.  
*Instructor in Medicine* 1203 Ruffin Street
- MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M.  
*Professor of Biblical Literature* 141 Pinecrest Road
- MYERS, JACK DUANE, (1947) A.B., M.D.  
*Assistant Professor of Medicine* 2138 Myrtle Drive
- NAHM, HELEN, (1946) R.N., B.S., M.S., Ph.D.  
*Professor of Nursing Education and Director, Division of Nursing Education* Faculty Apartments
- NEGLEY, GLENN, (1946) Ph.D.  
*Professor of Philosophy* 621 W. Markham Avenue
- NELSON, ERNEST WILLIAM, (1926) A.B., A.M., Ph.D.  
*Associate Professor of History* 2217 Club Boulevard
- NEURATH, HANS, (1938) Ph.D.  
*Professor of Physical Biochemistry* 2505 Club Boulevard
- NEWSON, HENRY W., (1948) B.S., Ph.D.  
*Professor of Physics* 1301 Sixth Street
- NICHOLSON, WILLIAM MCNEAL, (1935) A.B., M.D.  
*Associate Professor of Medicine* 824 Anderson Street
- NIELSEN, WALTER MCKINLEY, (1925) B.S. in E.E., Ph.D.  
*Professor of Physics* 139 Pinecrest Road
- NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.  
*Professor of Physics* 2255 Cranford Road
- ODOM, GUY LEARY, (1943) M.D.  
*Associate Professor of Neurosurgery* Hope Valley Road
- OHLSON, JOHN A., (1947) B.S., M.A.  
*Instructor in Psychology* 1005 Buchanan Boulevard
- \*OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.  
*Associate Professor of Botany* 2642 University Drive, Rockwood
- ORGAIN, EDWARD STEWART, (1934) M.D.  
*Associate Professor of Medicine* Hope Valley
- ORSINI, NAPOLEONE GIORDANO, (1947) Ph.D.  
*Visiting Professor of English* Faculty Apartments Annex
- PALMER, AUBREY E., (1944) B.S.E., C.E.  
*Assistant Professor in Civil Engineering* 2519 State Street
- PARKER, HAROLD TALBOT, (1939) A.B., Ph.D.  
*Assistant Professor of History* Glenn Apartments
- PARKER, JOSEPH B., JR., (1948) B.S., M.D.  
*Instructor in Neuropsychiatry* 609 Colgate Street
- PATTERSON, KARL BACHMAN, (1920) A.B., A.M.  
*Assistant Professor of Mathematics* 1024 Monmouth Avenue
- PATTERSON, ROBERT LEET, (1945) A.B., A.M., B.D., Ph.D.  
*Professor of Philosophy* 1040 West Forest Hills Boulevard
- PATTON, LEWIS, (1926) A.B., Ph.D.  
*Associate Professor of English* 614 Swift Avenue
- PAYNE, LELA M., (1947) B.A., M.A.  
*Instructor in Physical Education* 216 Epworth Inn

\* Absent on sabbatical leave, first semester, 1948-49.

- PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D., LL.D.  
*Professor Emeritus of Zoology* Chelsea Circle, Hope Valley
- PEARSE, RICHARD L., (1938) M.D.  
*Instructor in Obstetrics and Gynecology* 2802 Legion Avenue
- PEELE, TALMADGE LEE, (1939) A.B., M.D.  
*Associate Professor of Anatomy and Associate in Medicine* University Apartments
- PEMBERTON, JOHN DE JARNETTE, JR., (1947) A.B., LL.B.  
*Associate Professor of Law* 1920 Ward Street
- PERLZWEIG, WILLIAM ALEXANDER, (1930) B.S., A.M., Ph.D.  
*Professor of Biochemistry* Hope Valley
- PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.  
*Associate Professor of Botany* 2302 Cranford Road
- PERSONS, ELBERT LAPSLEY, (1930) A.B., M.D.  
*Assistant Professor of Medicine and Associate Professor of Preventive Medicine and Public Health* 723 Anderson Street
- PETRY, RAY C., (1937) A.B., A.M., Ph.D.  
*Professor of Church History* 128 Pinecrest Road
- PHILLIPS, JAMES HENRY, (1946) A.B., B.D., Ph.D.  
*Assistant Professor of Biblical Literature* No. 15 Duke University  
 Apts., Markham and Fifth Streets
- PICKRELL, KENNETH LeROY, (1943) M.D.  
*Associate Professor of Surgery* 3 Sylvan Road
- POPE, HILDA, (1948) A.B., M.A.  
*Instructor in Bacteriology* 1005 Vickers Avenue
- POPE, MARVIN HOYLE, (1947) A.B., A.M.  
*Visiting Instructor in Biblical Literature* 2117 Myrtle Drive
- POSTON, MARY ALVERTA, (1930) A.M.  
*Instructor in Bacteriology* 512 Watts Street
- POTEAT, MARY, (1935) A.B., A.M., Ph.D.  
*Assistant Professor of English* 103 Faculty Apartments
- POWELL, BENJAMIN, (1946) A.B., B.L.S., Ph.D.  
*Librarian* 626 Swift Avenue
- PRATT, LANIER WARD, (1940) A.B., M.A.  
*Instructor in Romance Languages* 2007 Ruffin Street
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.  
*Professor of Education* Myrtle Drive, West Campus
- RANEY, RICHARD BEVERLY, (1934) A.B., M.D.  
*Assistant Professor of Orthopaedics* 1110 Shepherd Street
- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.  
*Professor of Political Science* 1107 Knox Street
- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.  
*Professor of Mathematics* 1011 Gloria Avenue
- RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.  
*Professor of Economics* 133 Pinecrest Road
- RAYMOND, MARY LOIS, (1931) A.B., M.A.  
*Assistant Professor of Romance Languages* Faculty Apartments
- REAMER, I. THOMAS, (1931) Ph.G.  
*Instructor in Pharmacy* 2114 Woodrow Street

- REARDON, KENNETH J., (1947) A.B., A.M.  
*Assistant Professor of English* 2610 Duke Homestead Road
- REED, FREDERICK JEROME, (1935) M.E., M.S.  
*Associate Professor of Mechanical Engineering* 2203 Englewood Avenue
- REEVES, ROBERT JAMES, (1930) A.B., M.D.  
*Professor of Radiology* 920 Anderson Street
- REICHENBERG-HACKETT, WALLY, MRS., (1946) Ph.D.  
*Assistant Professor of Psychology* 2031 Club Boulevard
- REYNOLDS, THOMAS D., (1948) B.A., M.A., Ph.D.  
*Instructor in Mathematics* 707 Knox Street
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D. 908 W. Club Boulevard  
*Professor of Psychology; Director of Parapsychology Laboratory*
- RICHARDS, CLAUDE HENRY, (1946) A.B., A.M., Ph.D.  
*Assistant Professor of Political Science* 1407 N. Gregson Street
- ROBBINS, J. ALBERT, JR., (1946) B.A., M.A., Ph.D.  
*Instructor in English* Faculty Apartments
- ROBERT, JOSEPH CLARKE, (1938) A.B., A.M., Ph.D.  
*Associate Professor of History* 1102 B Street
- ROBERTS, HENRY S., (1948) A.B., Ph.D.  
*Instructor in Zoology* RFD Box 595, Duke Homestead Road
- ROBERTS, JOHN H., (1931) A.B., Ph.D.  
*Professor of Mathematics* 2813 Legion Avenue
- ROBERTS, LOUIS CARROLL, (1933) B.S., M.D.  
*Instructor in Urology* 2028 Sunset Avenue
- ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D., F.A.A.R.  
*Professor of Latin* 148 Pinecrest Road
- ROPP, THEODORE, (1938) A.B., A.M., Ph.D.  
*Associate Professor of History* 302 Woodridge Drive
- ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.  
*Assistant Professor of Latin and Greek* 603 Watts Street
- ROSS, NORMAN F., (1937) D.D.S.  
*Instructor in Dentistry* Chelsea Circle, Hope Valley
- ROSS, ROBERT ALEXANDER, (1930) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 818 Anderson Street
- ROSS, WILLIAM DEE, JR., (1946) A.B., A.M.  
*Instructor in Economics* University Apartments
- ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.  
*Professor Emeritus of Christian Doctrine* 150 Pinecrest Road
- RUCKER, MARVIN PIERCE, (1941) A.M., M.D., LL.D.  
*Lecturer in Obstetrics and Gynecology* Richmond, Va.
- RUDIN, JOHN J., II, (1945) A.B., B.D., M.A.  
*Assistant Professor of Speech* 810½ North Street
- RUDISILL, MABEL, (1948) A.B., M.A., Ph.D.  
*Associate Professor of Education* Manchester Apartments
- RUDOLPH, VICTOR JOHN, (1948) B.S., M.F.  
*Assistant Professor of Forest Management* 1104 Ninth Street
- RUFFIN, JULIAN MEADE, (1930) A.B., M.A., M.D.  
*Professor of Medicine* 816 Anderson Street

- RUNDLES, RALPH WAYNE, (1945) A.B., Ph.D., M.D.  
*Assistant Professor of Medicine* 132 Pinecrest Road
- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D., Litt.D.  
*Dean Emeritus of the Divinity School* Duke University
- SANDERS, C. RICHARD, (1937) B.Ph., M.A., Ph.D. No. 5 Duke University  
*Associate Professor of English* Apts., Markham and Fifth Streets
- SARGANT, WILLIAM WALTERS, (1947) M.R.C.S., L.R.C.P., B.Chir., M.A., M.B.,  
M.R.C.P.  
*Visiting Professor of Neuropsychiatry* Duke University
- SAVILLE, EUGENIA C., MRS., (1947) A.B., M. A. No. 14 Duke University Apts.,  
*Instructor in Music* Markham and Fifth Streets
- SAVILLE, LLOYD, (1946) A.B., M.A. No. 14 Duke University Apts.,  
*Assistant Professor of Economics* Markham and Fifth Streets
- SAWYER, CHARLES HENRY, (1944) A.B., Ph.D.  
*Associate Professor of Anatomy* 2119 Englewood Avenue
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.  
*Professor of Chemistry* 707 Club Boulevard
- \*SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D.  
*Professor of Education* 2247 Cranford Road
- SCHETTTLER, CLARENCE HENRY, (1946) A.B., A.M., Ph.D.  
*Associate Professor of Sociology* 2162 Guess Road
- SCHIEBEL, HERMAN MAX, (1939) A.B., M.D.  
*Associate in Surgery* 1410 Pennsylvania Avenue
- SCHILLER, SARA, (1947) B.S., M.S., Ph.D.  
*Instructor in Medicine* Duke Hospital
- SCHUMACHER, FRANCIS X., (1937) B.S.  
*Professor of Forestry* 6 Sylvan Road
- SCHWERMAN, ESTHER LOUISE, (1947) B.M., A.B., M.A.  
*Assistant Professor of Speech* 1102 Monmouth Avenue
- SCHWERT, GEORGE, JR., (1946) B.A., Ph.D.  
*Assistant Professor of Biochemistry* 615 Colgate Street
- SEALY, WILL CAMP, (1946) B.S., M.D.  
*Assistant Professor of Surgery* 1003 Demerius Street
- †SEARS, GERALD W., (1946) B.S., Ph.D. No. 16 Duke University Apts.,  
*Research Associate in Physics* Markham and Fifth Streets
- SEELEY, WALTER JAMES, (1925) E.E., M.S.  
*Professor of Electrical Engineering* 1005 Urban Avenue
- SEGERSON, JOHN ARTHUR, (1948) A.B., M.D.  
*Instructor in Medicine* Duke Hospital
- SHARP, D. GORDON, (1939) B.S., M.A., Ph.D. 202 Francis Street  
*Assistant Professor of Biophysics in Experimental Surgery and  
Biophysicist to Duke Hospital*
- SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D. 917 Green Street  
*Assistant Professor of German*
- SHEPHERD, HAROLD, (1939) A.B., J.D., LL.D. Cole Mill Road  
*Professor of Law and Dean of the School of Law*

\* Resigned, August 31, 1948.

† Resigned, August 15, 1948.



- SHIELDS, JOHN HERMAN, (1926) A.B., A.M.  
*Associate Professor of Accounting* 1315 Vickers Avenue
- SHINGLETON, WILLIAM W., (1947) A.B., M.D.  
*Instructor in Surgery* Duke Hospital
- \*SHUGERMAN, ABE LOUIS, (1947) B.S., M.B.A., LL.B.  
*Visiting Assistant Professor of Economics* Duke University
- SILVER, GEORGE A., (1948) B.S., M.D.  
*Instructor in Neuropsychiatry* 2005 Arbor Street
- SIMMONS, EDWARD C., (1947) A.B., A.M., Ph.D.  
*Associate Professor of Economics* 1404 Duke University Road
- †SIMPSON, WILLIAM HAYS, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Political Science* 1408 Dollar Avenue
- SLAUGHTER, GRIMES, (1948) B.S. in E.E.  
*Instructor in Electrical Engineering* Duke University
- SLAY, JAMES MATTHEW, (1946) A.B., M.A.  
*Instructor in Education* 1222 Arnette Avenue
- SMITH, ALEXANDER G., (1946) B.S.  
*Visiting Instructor in Physics* Duke University
- SMITH, DAVID TILLERSON, (1930) A.B., M.D.  
*Professor of Bacteriology and Associate Professor of Medicine* Hope Valley
- SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D., Litt.D.  
*Professor of American Religious Thought* 1523 Hermitage Court
- SMITH, HOVEY DENNIS, (1947) B.S., Lieutenant, U. S. Navy  
*Assistant Professor of Naval Science* 1601 Lakewood Avenue
- SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D.  
*Professor of Economics* 2236 Cranford Road
- SMITH, RUTH SLACK, MRS., (1927) A.B., A.M.  
*Instructor in Education and Dean of Undergraduate Instruction, Woman's College* Faculty Apartments, East Campus
- SMITH, SUSAN GOWER, MRS., (1930) A.B., M.A.  
*Associate in Nutrition* Hope Valley
- SMITH, WILLIAM V., (1946) B.S., Ph.D.  
*Associate Professor of Physics* No. 9 Duke University Apts.,  
 Markham and Fifth Streets
- SNOW, W. BREWSTER, (1948) B.S., M.S., Sc.D.  
*Associate Professor of Civil Engineering* 1022 W. Trinity Avenue
- SPENCE, BESSIE WHITTED, MRS., (1929) A.B., A.M., B.D.  
*Assistant Professor of Biblical Literature* Hope Valley
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D., Litt.D.  
*Professor of Biblical Literature and Religious Education* Hope Valley
- †SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.  
*Professor of Economics* 2240 Cranford Road
- †SPONER, HERTHA, (1935) Ph.D.  
*Professor of Physics* Hope Valley
- STANSBURY, DALE F., (1946) B.S., LL.B., J.S.D.  
*Professor of Law and Faculty Director of Law Library* 1008 W. Trinity Avenue
- STARKE, HELEN, (1948) A.B., M.D.  
*Instructor in Medicine* 1626 N. Duke Street

\* Resigned, August 15, 1948.

† Absent on sabbatical leave, first semester, 1948-49.



- STEAD, EUGENE ANSON, JR., (1947) B.S., M.D.  
*Florence McAlister Professor of Medicine* Myrtle Drive
- STEVENS, HARRY R., (1947) A.B., M.A., Ph.D.  
*Assistant Professor of History* 2016 Myrtle Drive
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.  
*Professor of Old Testament* 1107 Watts Street
- STOCKER, FREDERICK W., (1943) M.D.  
*Assistant Professor of Ophthalmology* 1021 Minerva Avenue
- STODDARD, LELAND DOUGLAS, (1946) A.B., M.D.  
*Instructor in Pathology* 1406 Duke University Road
- STROEBEL, HOWARD A., (1948) B.S., Ph.D.  
*Instructor in Chemistry* Duke University
- STUMPF, WIPPERT A., (1948) B.S., M.A., Ph.D.  
*Associate Professor of Education* 127 Pinecrest Road
- STYRON, CHARLES WOODROW, (1946) B.S., M.D.  
*Associate in Medicine* Duke Hospital
- SUGDEN, HERBERT WILFRED, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of English* University Apartments
- SUITT, ROBERT BURKE, (1940) M.D.  
*Associate in Neuropsychiatry* 1131 Dollar Avenue
- \*SUNDERLAND, ELIZABETH READ, (1939-42, 1943) A.B., A.M., Ph.D.  
*Assistant Professor of Art* Sparger Road
- SUTHERLAND, GEORGE FRASER, (1946) M.D., M.Sc.  
*Visiting Associate Professor of Neuropsychiatry* Forest Hills Boulevard
- SWASEY, MARTHA G., MRS., (1946) B.A., M.A.  
*Instructor in Physical Education* No. 12 Duke University  
 Apts., Markham and Fifth Streets
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D., Litt.D.  
*Professor of History* 116 Pincrest Road
- †TALBERT, ERNEST WILLIAM, (1942) A.B., M.A., Ph.D.  
*Associate Professor of English* Faculty Apartments
- TAYLOR, ALTON ROBERT, (1939) B.S., Ph.D.  
*Research Associate in Surgery* 2117 Club Boulevard
- TAYLOR, HARVEY GRANT, (1945) A.B., A.M., M.D.  
*Associate Professor of Pediatrics and Bacteriology, and*  
*Assistant Dean of Medical School* Route 2, Hillsboro, N. C.
- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Biochemistry and Toxicology* University Drive, Rockwood
- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.  
*Professor of Mathematics* 2215 Cranford Road
- THOMAS, WALTER LEE, JR., (1932) A.B., A.M., M.D.  
*Associate Professor of Obstetrics and Gynecology* 415 Carolina Circle
- THOMPSON, EDGAR TRISTRAM, (1935) A.B., A.M., Ph.D.  
*Professor of Sociology* 138 Pinecrest Road
- THOMSON, ROY BERTRAND, (1938) B.S., M.F., Ph.D.  
*Professor of Forest Economics* 2243 Cranford Road

\* Absent on leave, 1948-49.

† Absent on sabbatical leave, second semester, 1948-49.

- TOWNSEND, BERTRAM F., (1948) A.B., M.D.  
*Instructor in Anatomy* Duke Hospital
- \*TRENT, JOSIAH CHARLES, (1939) A.B., M.D.  
*Assistant Professor of Surgery* Fairview and Bivins Streets
- TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Greek* Faculty Apartments
- TURNER, VIOLET HORNER, (1947) B.A., M.D.  
*Instructor in Obstetrics and Gynecology* Duke Hospital
- UHRHANE, LUELLA J., (1947) R.N., B.S.  
*Instructor in Health Education* 402 Erwin Apartments
- VAIL, CHARLES ROWE, (1939) B.S. in E.E., M.S. (E.E.)  
*Assistant Professor of Electrical Engineering* 900 Dacian Avenue
- VAN ARSDALL, CLYDE J., JR., (1948) B.S., Commander, U. S. Navy  
*Associate Professor of Naval Science* Randolph Road
- VAN WAGENEN, RICHARD W., (1947) A.B., M.S., Ph.D.  
*Associate Professor of Political Science* 2017 Sprunt Street
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.  
*Professor of German* 2114 Myrtle Drive, West Campus
- †VON BECKERATH, HERBERT, (1935) Ph.D.  
*Professor of Economics and Political Science* Hope Valley
- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.  
*Professor of Chemistry* 2319 Englewood Avenue
- ‡WACKERMAN, ALBERT EDWARD, (1938) B.S., M.F.  
*Professor of Forest Utilization* Dover Road, Hope Valley
- WADE, WALLACE, (1931) A.B.  
*Head Coach of Football* Myrtle Drive, West Campus
- WALTON, ARLEY JOHN, (1948) A.B., B.S.L.  
*Associate Professor of Practical Theology and Director of Field Work* 815 Third Street
- WALTON, LORING BAKER, (1929) A.B., Lic. ès L., Ph.D.  
*Professor of Romance Languages* 2235 Cranford Road
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.  
*Associate Professor of English* Perkins Drive
- WARD, MARGARET CHAPMAN, (1946) A.B., A.M., Ph.D.  
*Instructor in Zoology* 202 Erwin Apartments
- WARREN, JOHN RUSH, (1946) A.B., M.S.  
*Instructor in Botany* 2002 Ruffin Street
- WATSON, RICHARD L., JR., (1939) A.B., Ph.D.  
*Assistant Professor of History* 1524 London Circle
- WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.  
*Assistant Professor of Greek* 918 Urban Avenue
- WEBSTER, GRACE, (1947) B.S. in Ed.  
*Instructor in Physical Education* 211 Epworth Inn
- WEEKS, K. D., (1947) B.S., M.D.  
*Instructor in Medicine* University Apartments
- WELSH, PAUL, (1948) A.B., Ph.D.  
*Assistant Professor of Philosophy* Faculty Apartments Annex

\* Died, December 10, 1948.

† Absent on sabbatical leave, first semester, 1948-49.

‡ Absent on sabbatical leave, second semester, 1948-49.

- WETHERBY, JOSEPH C., (1947) A.B., M.A.  
*Assistant Professor of Speech* 1404 Duke University Road
- WHARTON, GEORGE WILLARD, JR., (1939) B.S., Ph.D.  
*Assistant Professor of Zoology* 1202 Oval Drive
- WHITE, JOSEPH WARREN, (1946) A.B., M.D.  
*Lecturer in Orthopaedic Surgery* Duke University
- \*WHITE, MARIE ANNE, MRS., (1930) A.B., A.M.  
*Assistant Professor of English* 1003 Lamond Avenue
- †WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D.  
*Professor of English* 1003 Lamond Avenue
- WHITRIDGE, EUGENIA R., MRS., (1947) A.B., A.M., Ph.D.  
*Assistant Professor of Sociology* Vesson Street
- WIDGERY, ALBAN GREGORY, (1930) B.A., M.A.  
*Professor of Philosophy* St. Catherine, Pinecrest Road
- WIENER, THOMAS G., (1948) B.A., M.A.  
*Instructor in Russian Language and Literature* Pineview Apts.,  
 803 Demerius Street
- WILBUR, KARL MILTON, (1946) A.B., A.M., Ph.D.  
*Associate Professor of Zoology* 2414 Club Boulevard
- WILBUR, RALPH SYDNEY, (1933) B.S. in M.E., M.E.  
*Professor of Mechanical Engineering* 1018 Demerius Street
- WILDER, JESSE H., (1948) B.S. in M.E., M.S.  
*Instructor in Civil Engineering* Duke University
- WILLIAMS, D. M., (1947) B.S.  
*Lecturer in Preventive Medicine and Public Health* 1107 Alabama Avenue
- †WILLIAMS, JAMES WESLEY, (1937) A.B., B.S. in C.E.  
*Assistant Professor of Civil Engineering* 206 Swift Avenue
- WILSON, FLORENCE K., (1946) R.N., B.A., M.A.  
*Professor of Nursing and Dean of the School of Nursing* Faculty Apartments
- WILSON, FREDERICK ELIPHAZ, (1923) A.B., A.M.  
*Associate Professor of German* 1020 Demerius Street
- \*\*WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D., LL.D.  
*Professor of Political Science* 717 Anderson Street
- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D.  
*Professor of Botany* 924 Urban Avenue
- WOODHALL, BARNES, (1937) A.B., M.D.  
*Professor of Neurosurgery* Cole Mill Road
- WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.  
*Associate Professor of History* 2648 University Drive
- YOUNG, DAVID A., (1946) A.B., M.D.  
*Lecturer in Neuropsychiatry* Duke Hospital
- YOUNG, FRANKLIN WOODROW, (1945) A.B., B.D., Ph.D.  
*Assistant Professor of Biblical Theology* No. 13 Duke University  
 Apts., Markham and Fifth Streets
- \*\*ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D.  
*Professor of Psychology* Sparger Road

\* Absent on sabbatical leave, second semester, 1948-49.

† Died, December 6, 1948.

‡ Absent on sabbatical leave, 1948-49.

\*\* Absent on sabbatical leave, first semester, 1948-49.

AMORE, SALVATORE THOMAS, (1946) A.B., A.M., Ph.D. <i>Instructor (Part-time) in Chemistry</i>	Duke University
BEVAN, JOHN WILLIAM, (1947) <i>Instructor (Part-time) in Psychology</i>	Duke University
DAVIS, ROGER BAXTER, Licensed Architect <i>Visiting Instructor (Part-time) in Engineering Drawing</i>	Duke University
DEENER, DAVID R., (1948) A.B., A.M. <i>Instructor (Part-time) in Political Science</i>	Duke University
FOERSTER, NORMAN, (1948) A.B., A.M., Litt.D. <i>Visiting Professor (Part-time) in English</i>	Chapel Hill, N. C.
*GALE, WALTER JOHN, (1946) B.S., M.Ed. <i>Instructor (Part-time) in Education</i>	Duke University
GINTHER, JAMES EDWARD, (1947) A.B., A.M. <i>Instructor (Part-time) in English</i>	2211 Chapel Hill Road
GUILDS, JOHN C., (1948) A.B., M.A. <i>Instructor (Part-time) in English</i>	Duke University
HATHORN, GUY B., (1948) A.B., A.M. <i>Instructor (Part-time) in Political Science</i>	Duke University
HOLDEN, BENJAMIN T., (1948) A.B. <i>Instructor (Part-time) in Economics</i>	Duke University
*JOHNSON, RUSSELL HELGE, (1947) B.S. <i>Instructor (Part-time) in Mechanical Engineering</i>	Duke University
LEHMANN, HENRY W., (1948) A.B., LL.B. <i>Instructor (Part-time) in Economics</i>	Duke University
LOWE, RUTH H., (1947) B.S., M.A. <i>Instructor (Part-time) in English</i>	Epworth Inn
NAJAM, EDWARD W., (1947) B.A. <i>Instructor (Part-time) in Romance Languages</i>	Duke University
POWELL, WOODROW WILSON, (1946) A.B., A.M. <i>Instructor (Part-time) in English</i>	Duke University
RABIN, DAVID, (1948) B.S. in M.E. <i>Instructor (Part-time) in Mechanical Engineering</i>	2014 Bivins Street
REECE, JAMES R., (1948) A.B. <i>Instructor (Part-time) in English</i>	201 Jones Street
SEEVERS, DELMAR O., (1947) B.S. <i>Instructor (Part-time) in Physics</i>	Duke University
STENTZ, D. A., (September-January, 1947-48) <i>Instructor (Part-time) in Electrical Engineering</i>	Duke University
STEPHENSON, HAROLD, (1948) B.S. <i>Instructor (Part-time) in Physics</i>	Duke University
THOMPSON, DONALD, (January 30, 1947) B.S. <i>Instructor (Part-time) in Chemistry</i>	Duke University
WALKER, ERNEST W., (September 1, 1948-January 31, 1949) <i>Instructor (Part-time) in Economics</i>	Duke University
WILLIAMS, M. J., (1948) <i>Instructor (Part-time) in Economics</i>	Duke University

\* Resigned, June 30, 1948.



## INSTRUCTIONAL ASSISTANTS

BRAWLEY, S. C., JR., (1946) <i>Assistant in Legal Aid Clinic</i>	2422 Club Boulevard
HYLDBURG, CARLA, (1948) B.A., LL.B. <i>Assistant in Legal Aid Clinic</i>	Duke University
KNIGHT, ALTON J., (1938) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	Carver Street (Ext.)
MCCOWN, WALLACE H., (1948) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	Duke University
MASON, MARY LOCHER, MRS., (September, 1947-January 31, 1948) Diploma in Fine Arts, Teachers College, Columbia University <i>Assistant in Education</i>	Cole Mill Road
SANDERS, RICHARD, (1945) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	506 Watts Street

INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION  
TRINITY COLLEGE

BALEY, JAMES ANTON, (1947) B.S. <i>Instructor in Physical Education</i>	1606 James Street
BLY, JAMES R. <i>Instructor in Physical Education</i>	Duke University
CALDWELL, HERSCHEL, (1930) <i>Instructor in Physical Education;</i> <i>Assistant Coach of Football</i>	908 Markham Avenue
*CARD, WILBUR WADE, (1902) A.B. <i>Instructor in Physical Education</i>	1110 Minerva Avenue
CHAMBERS, ROBERT LUTHER, (1933) B.S. in Ed. <i>Instructor in Physical Education;</i> <i>Head Coach of Varsity Track</i>	2311 Prince Street
COOMBS, JOHN WESLEY, (1929) B.S., M.A. <i>Instructor in Physical Education;</i> <i>Head Coach of Varsity Baseball</i>	West Campus
COX, ROBERT CALVIN, (1942) A.B., M.A. <i>Instructor in Physical Education;</i> <i>Assistant Football Coach; Coach of Varsity Tennis</i>	1826 Guess Road
FALCONE, CARMEN, (1946) B.S., M.A. <i>Instructor in Physical Education;</i> <i>Coach of Varsity Wrestling; Assistant in Football</i>	University Apartments
GERARD, KENNETH, (1931) B.S. <i>Instructor in Physical Education; Director of</i> <i>Intramural Sports and Coach of Basketball</i>	University Apartments
HAGLER, ELLIS, (1930) A.B. <i>Instructor in Physical Education; Coach of</i> <i>Varsity Golf; Assistant Coach of Football</i>	220 Forest Wood Drive
HARRISON, FRANCIS PARKS, (1947) A.B., M.A. <i>Instructor in Physical Education; Assistant Football Coach</i>	320 Clark Street
HENDRIX, JOHN WILLIAM, (1947) <i>Instructor (Part-time) in Physical Education</i>	220 Forest Wood Drive
* Died, September 3, 1948.	



*HENNEMIER, JOHN MATHIACK, (1945) <i>Instructor in Physical Education; Assistant Coach of Football</i>	University Apartments
KARMAZIN, MICHAEL, (1948) A.B. <i>Assistant Coach of Football</i>	Duke University
KUSTURISS, MICHAEL, (1948) A.B. <i>Instructor (Part-time) in Physical Education</i>	Duke University
LEWIS, HUBERT MURRY, (1937) B.S. <i>Acting Business Manager of Athletics; Instructor in Physical Education and Track</i>	Pickett Road
MONTFORT, ROBERT, (1940) B.A. <i>Assistant Instructor in Physical Education</i>	3300 Cole Mill Road
PARKER, CLARENCE M., (1947) <i>Assistant Coach of Football</i>	9 Pratt Street
PERSONS, WALTER S., (1930) A.B. <i>Instructor in Physical Education; Coach of Swimming; Coach of Lacrosse</i>	612 Swift Avenue
WILLIAMSON, PAUL W., (1947) <i>Instructor (Part-time) in Physical Education</i>	1000 Lamond Avenue

## THE UNIVERSITY LIBRARIES

## UNIVERSITY LIBRARY

POWELL, BENJAMIN, A.B., B.L.S., Ph.D. <i>Librarian</i>	626 Swift Avenue
CHRIST, ROBERT W., A.B., M.S. <i>Assistant Librarian</i>	1403 Watts Street
BREEDLOVE, JOSEPH PENN, A.B., M.A. <i>Librarian Emeritus</i>	407 Watts Street
<hr/>	
ATKINS, MRS. DOROTHY W., A.B., B.S. in L.S. <i>Serials Cataloger</i>	1700 Markham Avenue
BALDWIN, MRS. MILDRED K. <i>Assistant in charge of Binding</i>	1507 Pettigrew Street
BITTING, MARY ELIZABETH, A.B., M.A., A.B. in L.S. <i>Subject Cataloger and Pamphlets Librarian</i>	2105 Club Boulevard
BLAKELY, FLORENCE E., B.A., B.S. in L.S. <i>Reference Librarian</i>	1107 Watts Street
CANSLER, MRS. DOROTHY P., A.B. <i>Assistant Periodicals Librarian</i>	321 E. Main Street
CHAPMAN, MRS. MARGARET C., A.B. <i>Assistant, Order Section</i>	1208 Arnette Avenue
COVINGTON, LENA, A.B., A.B. in L.S. <i>Classifier</i>	403 Watts Street
EMMA, MRS. JOAN EMILY, B.A., M.A. <i>Bibliographer</i>	1010 Gloria Avenue
EVANS, ESTHER, A.B., B.S. in L.S. <i>Subject Cataloger</i>	1107 Urban Avenue
* Resigned, March 1, 1949.	

- FRAZIER, MRS. EDNA, B.S.  
*Assistant, Subject Cataloging* 1212 Duke Road
- FREEMAN, MRS. NANCY JONES, A.B.  
*Assistant, Circulation Department* 821 Buchanan Boulevard
- GITLIN, MRS. ETHEL R., B.A.  
*Librarian, Physics-Mathematics* 2511 Roxboro Road
- GUILDS, MRS. CAROLEE H., A.B.  
*Assistant, Manuscripts* 818 Sixth Street
- HAUPTSCHN, MRS. GLORIA, A.B.  
*Assistant, Serials Section* 519 Holloway Street
- HIX, EDWIN J., B.A., A.B. in L.S.  
*Bibliographer* 812 Fourth Street
- HOLMAN, HARRIET R., A.B., A.M., Ph.D.  
*Reference Librarian* Powe Apartments, Watts Street
- KALE, MRS. ETHEL LONG  
*Librarian, Engineering* Chapel Hill Road
- KING, MRS. FRANCES L., A.B., B.S. in L.S.  
*Descriptive Cataloger* Apt. 1-A Piedmont Village, Creedmoor, N. C.
- KIRKLAND, DOROTHY F., A.B., A.B. in L.S.  
*Descriptive Cataloger* 208 Jones Street
- LEMEN, WILHELMINA, A.B., A.B. in L.S.  
*Documents Librarian* 611 Watts Street
- LOWRY, MARIAN P., B.S.  
*Librarian, Biology-Forestry* 915 Green Street
- MCDONALD, WALTER N., A.B., B.D.  
*Assistant, Circulation Department* 917 Second Street
- MANER, ADELAIDE S., A.B., B.S. in L.S.  
*Subject Cataloger* 208 Buchanan Boulevard
- MANLOVE, MRS. SUZANNE  
*Librarian, Chemistry* Epworth Inn
- MERRITT, GERTRUDE, A.B.  
*Chief, Technical Processing* 403 Watts Street
- MEYERS, EDWARD J.  
*Assistant, Circulation Department* 102 Forest Wood Drive
- OYLER, HELEN E., A.B., B.S. in L.S.  
*Head, Serials Section* 512 Watts Street
- PARKER, MARY ELEANOR, B.A., B.S. in L.S.  
*Descriptive Cataloger* 801 Third Street
- PARKER, WIXIE E., A.B., B.S. in L.S.  
*Periodicals Librarian* Powe Apartments, Watts Street
- PFEIFFER, MRS. RUTH E., A.B.  
*Assistant, Circulation Department* Box 5415 Duke Station
- PINGREE, MRS. MARYLIN, B.S.  
*Assistant, Newspaper Room* 305½ N. Roxboro Street
- PLOWDEN, MARY E., A.B., A.B. in L.S.  
*Head, Order Section* 1014 Broad Street

RAMAGE, ALLENE, A.B., B.S. in L.S. <i>Newspaper and Film Librarian</i>	1103 Monmouth Avenue
ROBERTS, E. GRAHAM, B.A., B.A. in L.S. <i>Curator of Manuscripts</i>	2009 Club Boulevard
ROSE, HONORA L. <i>Assistant, Order Section</i>	108 W. Geer Street
ROYAL, MRS. VERA R., A.B., M.R.E. <i>Bookkeeper</i>	2123 Englewood Avenue
RUSSELL, MATTIE, B.A., M.A. <i>Assistant Curator of Manuscripts</i>	2209 Woodrow Street
SHUFORD, MARY OPAL, A.B., A.B. in L.S. <i>Subject Cataloger</i>	805 Sixth Street
SIMCOE, LUCILLE, A.B., B.S. in L.S. <i>Acting Head, Reference Department</i>	1004 W. Trinity Avenue
SIMKINS, THOMAS M., JR., A.B., A.B. in L.S., M.A. <i>Acting Curator of Manuscripts</i>	801 Third Street
STEVENS, SHIRLEY <i>Assistant, Documents</i>	6 Sylvan Road
STONE, MRS. MARY C., A.B., A.M. <i>Undergraduate Librarian</i>	1312 Second Street
STURGEON, JANE, B.S., B.S. in L.S. <i>Head, Descriptive Cataloging Section</i>	1111 Urban Avenue
THOMPSON, MRS. ANNE S., A.B. <i>Assistant, Serials</i>	806 Third Street
WAGGONER, J. P., JR., A.B., B.D., B.S. in L.S. <i>Head, Circulation Department</i>	605 Tiona Avenue
WALKER, JEAN, A.B. <i>Assistant, Circulation Department</i>	1103 Knox Street
WESCOTT, MARY, A.B., B.S. in L.S. <i>Head, Subject Cataloging</i>	905 Sixth Street
ZIEN, FONG KUH, A.B., M.A. <i>Assistant, Descriptive Cataloging</i>	305 Faculty Apartments

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 DIVINITY SCHOOL LIBRARY

EHLHARDT, GEORGE B., A.B., B.D. <i>Librarian</i>	Faculty Apartments
TANAKA, ISAWO, A.B., B.D., M.A. <i>Assistant Librarian</i>	1804 W. Markham Avenue

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 WOMAN'S COLLEGE LIBRARY

GRIGGS, MRS. LILLIAN B., B.A. in L.S. <i>Librarian</i>	915 Monmouth Avenue
HARRISON, EVELYN J., A.B., B.S. in L.S. <i>Head Cataloger</i>	403 Watts Street
HICKS, MRS. SPEARS, A.B., B.S. in L.S. <i>Reference Librarian</i>	121 W. Seeman Street
KETCHIN, MRS. GRAYSON, A.B., B.S. in L.S. <i>Cataloger</i>	903 Shepherd Street

LEWTER, FLORINE, A.B., A.B. in L.S. <i>Periodicals Librarian</i>	708 Parker Street
FARMER, MRS. FLORENCE G., A.B. <i>Assistant, Circulation Department</i>	1403 N. Duke Street
TILLET, MARGARET, S.A.B., A.B. in L.S. <i>Circulation Librarian</i>	1405 N. Mangum Street
TYSINGER, CATHERINE V., A.B., B.S. in L.S. <i>Cataloger</i>	1007 W. Trinity Avenue

## LAW LIBRARY

LONG, MARIANNA, A.B., B.S. in L.S. <i>Librarian</i>	403 Watts Street
COPELAND, MADELINE, A.B., A.B. in L.S. <i>Cataloger</i>	1018 Monmouth Avenue
DAY, KATHERINE, B.S. <i>Assistant Librarian in charge of Acquisitions</i>	512 Watts Street

## MEDICAL SCHOOL LIBRARY

FARRAR, JUDITH, A.B., B.S. <i>Librarian</i>	117 Faculty Apartments, East Campus
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## UNIVERSITY CHAPEL—RELIGIOUS ACTIVITIES

## PREACHERS TO THE UNIVERSITY

HICKMAN, FRANKLIN SIMPSON, A.B., S.T.B., A.M., Ph.D.	921 Markham Avenue
CLELAND, JAMES T., M.A., B.D., Th.M.	2117 Myrtle Drive
BOSLEY, HAROLD A., A.B., B.D., Ph.D., D.D.	1020 Urban Avenue
BARNES, JAMES FOSTER, A.B., A.M. <i>Director of Choral Music</i>	2401 Cranford Road
BREES, ANTON <i>University Carillonneur</i>	Duke University
HENDRIX, MILDRED LITTLE, MRS., B.S. <i>University Organist</i>	144 Pinecrest Road
PHILLIPS, JAMES HENRY, A.B., B.D., Ph.D. <i>Director of Religious Activities</i>	No. 15 Duke University Apts., Markham and Fifth
SAMPLEY, ETHELENE <i>Director of Religious Activities, Woman's College</i>	Faculty Apartments

## RELIGIOUS ACTIVITIES STAFF WORKERS

Presbyterian—GIBBS, NORMAN, A.B., B.D.	Rt. 2, Cole Mill Road
Baptist—PARKES, KLEIN E., A.B., B.D.	1107 Georgia Avenue
Methodist—RAINWATER, ROLAND W., A.B., B.D.	1023 Gloria Avenue
Lutheran—SHEALY, CHARLES J., A.B., B.D.	210 W. Geer Street
Episcopal—WORKMAN, GEORGE A., A.B., B.D.	903 W. Markham Avenue

## PHYSICAL EDUCATION AND STUDENT HEALTH

CAMERON, EDMUND McCULLOUGH, A.B.	
<i>Director of Physical Education and Athletics, West Campus</i>	Hope Valley
HILL, DAN WINFIELD, A.B.	
<i>Assistant to the Athletic Director</i>	2427 Glendale Avenue
GROUT, JULIA REBECCA, A.B., M.S.	205 Jones Street
<i>Associate Professor of Physical Education, Woman's College</i>	
PERSONS, ELBERT LAPSLEY, A.B., M.D.	
<i>Director of Student Health</i>	723 Anderson Street
SMITH, ERMA ANITA, A.B., M.A., Ph.D., M.D.	
<i>Director of Student Health, Woman's College</i>	Duke University
TAJCHMAN, VERA, R. N.	
<i>Resident Nurse, Woman's College</i>	East Campus Infirmary
VESTAL, MOZELLE, R.N.	
<i>Resident Nurse, Woman's College</i>	East Campus Infirmary
JONES, JULIA WOOTEN, R.N.	
<i>Resident Nurse, West Campus</i>	University Apartments

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## MUSICAL ORGANIZATIONS AND ART EXHIBITIONS

BARNES, JAMES FOSTER, A.B., A.M.	
<i>Director of Chapel Choir and Men's Glee Clubs</i>	2401 Cranford Road
BARNES, MRS. JAMES FOSTER	
<i>Director of Women's Glee Club</i>	2401 Cranford Road
SAVILLE, MRS. EUGENIA, B.S., M.A.	
<i>Director of the Madrigal Singers</i>	Markham Avenue and Fifth Street
BONE, ALLAN H., B.A., M.M.	
<i>Director of the Concert and Marching Bands, the Chamber Orchestra, the Symphony Orchestra</i>	2314 Club Boulevard
GATLING, EVA INGERSOLL, B.A., M.A.	
<i>Director of Exhibitions and Supervisor of Art Equipment</i>	Hillsboro, N. C.

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## RESIDENCE

WILSON, MARY GRACE, A.B.	
<i>Dean of Residence, Woman's College</i>	Faculty Apartments
WHITAKER, MRS. FRANCES M., A.B., A.M.	
<i>Assistant to Dean of Residence; Counselor Brown House</i>	Brown House
PEMBERTON, MRS. MARY NORCUTT	
<i>Hostess, West Campus</i>	West Campus Union
BARNES, EVELYN, B.S.	
<i>Counselor, Alspaugh House</i>	Alspaugh House
BARNWELL, POLLY, A.B.	
<i>Counselor, Pegram House</i>	Pegram House
BOLTON, ELIZABETH, A.B., M.A.	
<i>Counselor, Southgate House</i>	Southgate House



BRACKMAN, JEAN, B.S. <i>Counselor, Bassett House</i>	Bassett House
*GEORGE, BEATRICE, A.B. <i>Counselor, Southgate House</i>	Southgate House
*HEISER, LOIS, A.B. <i>Counselor, Bassett House</i>	Bassett House
RICHARDS, MARTHA, A.B. <i>Counselor, Aycock House</i>	Aycock House
TAYLOR, MRS. HARRIET <i>Counselor, Giles House</i>	Giles House
*THOMAS, MRS. J. MADISON, A.B. <i>Counselor, Aycock House</i>	Aycock House
WELLBORN, MARY MOSS, A.B. <i>Counselor, Jarvis House</i>	Jarvis House

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HAGEMEYER, MABEL, A.B., M.S. <i>Production Supervisor, the Dining Halls, Men's College</i>	1507 West Pettigrew Street
HOWE, ISABELLE, B.S. <i>Manager, the Dining Halls, Woman's College</i>	111 Watts Street
MORGAN, RUBY, B.S. <i>Service Supervisor, the Dining Halls, Men's College</i>	Southgate House
COX, JAMES O., JR. <i>Personnel Supervisor, the Dining Halls, Men's College</i>	206 Jones Street

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KNUDSEN, MRS. CHRISTIE K., B.S. <i>Dietitian, Southgate House</i>	Southgate House
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BORING, MRS. HAL <i>Supervisor of Dormitories, West Campus</i>	115 Watts Street
CARTER, MRS. VIRGINIA R. <i>Supervisor of Dormitories, East Campus</i>	Duke University
HOOKE, MRS. MARY R. <i>Supervisor of Dormitories, East Campus</i>	Powe Apartments, Buchanan Boulevard
LEA, MRS. BEULAH C. <i>Supervisor of Dormitories, West Campus</i>	1920 Chapel Hill Road
LONG, MRS. R. T. <i>Supervisor of Dormitories, West Campus</i>	705 Shepherd Street

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†ALDRIDGE, FRED SOULE, A.B., A.M. <i>Chaplain of Duke Hospital and Director of the Golden Cross</i>	East Campus
DICKS, RUSSELL L., A.B., B.D., D.D. <i>Chaplain of Duke Hospital</i>	2308 Prince Street

\* Resigned, June 30, 1948.

† Died, October 2, 1948.

## FELLOWS AND GRADUATE ASSISTANTS

## UNIVERSITY FELLOWS

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
BEATSON, JAMES ALLEN A.B., A.M., Duke University	History	Manning, S. C.
CUCULO, JOHN ANTHONY B.S., Brown University	Chemistry	Durham, N. C.
FROSTICK, FREDERICK CHARLES, JR. B.S., Duke University	Chemistry	Maxton, N. C.
FULTON, LEWIS MCLEOD, JR. B.A., Mt. Allison University; A.M., Duke University	Mathematics	Durham, N. C.
GENTRY, IVEY CLENTON B.S., Wake Forest College; B.S., New York University; A.M., Duke University	Mathematics	Roxboro, N. C.
GOAD, WALTER BENSON, JR. B.S., Union College	Physics	Kinston, N. C.
GORDON, MORRIS AARON B.S., The College of the City of New York; M.S., The University of Chicago	Botany	Jamaica, N. Y.
HOLT, ROBERT LE ROI B.A., M.A., Wake Forest College	Religion	Durham, N. C.
HUSTON, HOLLIS WILBURN A.B., Williamette University; B.D., Duke University	Religion	Salem, Ore.
KEEVER, NANCY CATHERINE A.B., A.M., Duke University	Botany	Stony Point, N. C.
KYLE, JOSEPH BURCH A.B., Linfield College; A.M., University of Oregon	History	Eugene, Ore.
LEHMANN, DOLORES A.B. Brooklyn College; A.M., Columbia University	Zoology	Brooklyn, N. Y.
NEWBERRY, EUGENE WILSON A.B., Denison University	Religion	New Boston, Ohio
PIERSON, ROBERT MALCOLM A.B., DePauw University; A.M., Duke University	English	Greencastle, Ind.
REYNOLDS, GEORGE ARTHUR B.S., University of Florida	Chemistry	West Palm Beach, Fla.
RUDIN, WALTER A.B., A.M., Duke University	Mathematics	New York, N. Y.
SMITH, LAWRENCE JOSEPH B.S. in Ag. Ec., Iowa State College	Education	Richwood, W. Va.
STONE, EDWARD B.A., M.A., University of Texas	English	Newark, N. J.
SUTCLIFFE, WILLIAM HUMPHREY, JR. A.B., Emory University; A.M., Duke University	Zoology	Miami, Fla.
TAYLOR, ORVILLE WALTERS A.B., Ouachita College; M.A., University of Kentucky	History	Little Rock, Ark.
WETHINGTON, LEWIS ELBERT B.A., Wake Forest College; B.D., Duke University	Religion	Durham, N. C.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
WILES, CHARLES PRESTON A.B., Washington College	Religion	Brunswick, Md.

## GRADUATE ASSISTANTS

ADAMS, MARTHA JEAN B.A., Woman's College, University of North Carolina	Romance Languages	Winston-Salem, N. C.
ALFRIEND, GENEVIEVE B.A., Mary Washington College	Romance Languages	Charles Town, W. Va
ALLEN, WILLIAM RICHARD B.A., Cornell College, Iowa	Economics	Chicago, Ill.
BALL, CARROLL RAYBOURNE B.A., M.S., University of Mississippi	Zoology	Montrose, Miss.
BASHAM, JANET GRAY BROOKS A.B., Woman's College, University of North Carolina	Psychology	Greensboro, N. C.
BATTLE, GUY ARTHUR, JR. A.B., A.M., Duke University	English	Sumter, S. C.
BENNETT, WILLIAM LEFFIS B.A., Wake Forest College	History	Shalotte, N. C.
BERGER, SUZANNE HARDING B.S., George Washington University	Zoology	Cobelskill, N. Y.
BIRGE, WILLIAM ROOT A.B., Princeton University	Psychology	Northampton, Mass.
BONNEN, JAMES THOMAS B.A., Texas Agricultural and Mechanical College	Economics	College Station, Texas
BORMANN, FREDERICK HERBERT B.S., Rutgers University	Botany	Westwood, N. J.
BROWNELL, ROBERT FOOTE, JR. B.A., Williams College	Physics	Jamestown, N. Y.
BURKHALTER, JAMES HERBERT A.B., Emory University; M.S., Georgia School of Technology	Physics	Rome, Ga.
BUSSELL, WILSIE FLORENCE A.B., A.M., Duke University	Romance Languages	Durham, N. C.
CANON, ALFRED ORVILLE, JR. A.B., Southwestern College at Memphis	Political Science	Memphis, Tenn.
CATO, BENJAMIN RALPH, JR. A.B., Duke University	Mathematics	Charlotte, N. C.
CHREITZBERG, AUGUSTUS MCKEE, JR. B.S., Wofford College	Chemistry	Spartanburg, S. C.
COFRESI, EMILIO B.A., West Virginia University; M.A., University of Illinois	Sociology	Mayagues, P. R.
COX, DON KNOWLTON B.S., University of Nevada	Botany	Reno, Nev.
*CREAMER, BOYCE HARRY A.B., Furman University; Th.B., God's Bible College; M.A., University of Tennessee	Sociology	Anderson, S. C.
CROWELL, ROBERT MERRILL A.B., M.A., Bowling Green University	Zoology	Canton, Ohio

\* Resigned, February 1, 1949.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
DAVIS, MARGARET LEONE B.A., Hunter College	Sociology	New York, N. Y.
DELHOMME, GEORGE ARTHUR, JR. B.A., University of Toronto	English	Houston, Texas
ELLIOTT, DON RINGGOLD B.A., Henderson State Teachers College	Political Science	Arkadelphia, Ark.
FARTHING, CARRIE LEE B.S., Appalachian State Teachers College	English	Boone, N. C.
FARTHING, MADELINE A.B., Woman's College, University of North Carolina; M.Ed., Duke University	Education	Sugar Grove, N. C.
GANNON, PHILIP JEROME B.A., Albion College	Zoology	Detroit, Mich.
GANTZ, BESSIE MCGLOTHLIN B.S. in Ed., State Teachers College, Farmville, Va.	Education	Ballsville, Va.
GOLDSTONE, SANFORD B.S., The College of the City of New York	Psychology	New York, N. Y.
GORDON, HAROLD DUNBAR B.S., Wheaton College	Political Science	Bridgehampton, N. Y.
GREEN, CLAUDE BETHUNE A.B., M.A., University of Georgia	English	Clemson, S. C.
GREEN, RALPH TILLMAN A.B., M.S., Agricultural and Mechanical College of Texas	Economics	Paxton, Texas
GREENHOW, CHARLES RICHARD B.S.E.E., North Carolina State College	Physics	Covington, Ky.
GUSTAFSON, OSCAR THADDEUS B.A., Macalester College	Education	Panama City, Fla.
HANCE, CHARLES ROBERT B.S., University of Illinois	Chemistry	Marengo, Ill.
HANCOCK, CAROLYN LOIS A.B., Georgia State College for Women	Sociology	Atlanta, Ga.
HARRIS, JAMES THURLOE, JR. B.S., The Citadel	Chemistry	Spartanburg, S. C.
HARRIS, ROBERT LEIGH A.B., A.M., University of Alabama	History	Tuscaloosa, Ala.
HERBST, ROBERT TAYLOR A.B., Duke University; M.S., North Carolina State College	Mathematics	Newport News, Va.
HOGUE, PHYLLIS A.B., Connecticut College	English	Elizabeth, N. J.
HONES, EDWARD WHEELER, JR. B.S., Duke University	Physics	Durham, N. C.
JAMES, KEITH WARREN B.A., Wake Forest College	Philosophy	Oakboro, N. C.
JONES, NORMA LOUISE B.A., Hiram College	Romance Languages	Orwell, Ohio

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
JONES, ORA MELINDA MARDELL A.B., University of Georgia	Psychology	Jonesboro, Ga.
JUDGE, WILLIAM ARTHUR B.S., Loyola College	Chemistry	Baltimore, Md.
KEIRCE, WILLIAM F. B.M.E., University of Louisville	English	Louisville, Ky.
KOHN, EDWARD MAURICE B.S., The College of the City of New York	Chemistry	New York, N. Y.
LABORDE, IRENE B.A., M.A., University of South Carolina	English	Columbia, S. C.
LANDAU, LAWRENCE B.S., The College of the City of New York	Chemistry	New York, N. Y.
LANGEN, ROBERT FRANCIS A.B., Duke University	Psychology	Durham, N. C.
LAWTON, ROBERT OSWALD, JR. A.B., A.M., Duke University	English	Greenwood, S. C.
LEWIS, EDITH WINIFRED A.B., Georgia State College for Women	Sociology	Vidalia, Ga.
LIND, EDWARD LOUIS Sc.B., Brown University; A.M., Duke University	Chemistry	Whitestone, L. I., N. Y.
MCCAIN, PAUL MOFFATT B.A., Erskine College; A.M., Duke University	History	Decatur, Ga.
MCCOURY, PHILLIP DEWEY B.A., Reed College	Economics	Chicago, Ill.
MAGNER, BERTHA ARDYS B.S., University of Miami	Zoology	Miami, Fla.
MANLOVE, GEORGE KENDALL B.A., M.A., Oberlin College	English	Chagrin Falls, Ohio
*MARTIN, JAMES EDWIN A.B., Mercer University; M.S., University of Georgia	Physics	Waynesboro, Ga.
MEEKS, MARION LITTLETON B.S., M.S., Georgia School of Technology	Physics	Atlanta, Ga.
MUNSTER, RALF F. W. A.B., Duke University	Philosophy	Savannah, Ga.
NEASE, FELTON REESE B.A., M.S., University of Oklahoma	Botany	Lawton, Okla.
OLIVER, JOHN BURRELL A.B., A.M., University of North Carolina	History	College Park, Ga.
PORTER, BERNARD B.S., The College of the City of New York	Chemistry	Bronx, N. Y.
PORTER, HARDIN KIBBE B.S., University of Texas; M.S., Georgia School of Technology	Chemistry	Philadelphia, Pa.
POTTER, RICHARD AUSTIN B.S., Rollins College	Chemistry	Winter Park, Fla.
REECE, JAMES BRADY A.B., The Johns Hopkins University	English	Lenoir, N. C.

\* Resigned, November 30, 1948.



<i>Name</i>	<i>Department</i>	<i>Home Address</i>
RENTZ, THOMAS EUGENE A.B., Duke University	Romance Languages	Columbus, Ga.
RHODES, STANLEY ALLEN B.S. in Ed., A.M., University of Virginia	Zoology	Norfolk, Va.
ROBERTSON, PATRICIA RUTH B.A., Smith College	English	Washington, D. C.
ROSOFF, MORTON B.A., Brooklyn College	Chemistry	Brooklyn, N. Y.
RUST, NONA MARTIN B.A., Huntington College	German	Columbus, Ga.
SASTRI, M. LAKSHMI N. B.Sc., M.Sc., Benares Hindu University	Physics	Madras Province, India
SCHMIDT-BAEÜMLER, LUISE A.B., Swarthmore College	Zoology	New York, N. Y.
SIDDALL, THOMAS HENRY, III A.B., University of North Carolina; M.S., University of Chicago	Chemistry	Sumter, S. C.
SILVA, JOSEPH ANDREW B.S., Northeastern University	Mathematics	Lexington, Mass.
STALZER, ROBERT FREDRICK B.S., Kent State University	Chemistry	Cuyahoga Falls, Ohio
STINSON, EDGAR FRANKLIN, JR. B.A., M.S., East Texas State Teachers College	Chemistry	Marshall, Texas
SULZER, RICHARD LEE A.B., Duke University	Psychology	South Norwalk, Conn.
SWERLICK, ISADORE A.B., Temple University	Chemistry	Philadelphia, Pa.
TARLTON, WILLIAM SAMUEL B.A., M.A., Wake Forest College	History	Marshville, N. C.
*TERRELL, JAMES ELMER B.A., University of Arkansas	English	Huttig, Ark.
THOMPSON, EARLE CROSLAND A.B., Union University, Jackson, Tenn.	History	Plantersville, Miss.
THUMM, BYRON ASHLEY B.S., Morris-Harvey College	Chemistry	Charleston, W. Va.
TROUTMAN, WILLIAM FIFE, JR. B.S., Western Carolina Teachers College; A.M., Duke University	Political Science	Asheville, N. C.
TYCZKOWSKI, EDWARD ALBERT B.Sc., Brown University	Chemistry	Apponaug, R. I.
WALTER, EUGENE VICTOR B.A., University of Miami	Political Science	Miami Beach, Fla.
WEINGARTNER, RUSSELL CLARENCE B.A., University of Cincinnati	Romance Languages	Newport, Ky.
WEST, DORIS EILENE A.B., Earlham College; A.M., Ohio State University	Sociology	Portsmouth, Ohio

\* Resigned, December 3, 1948.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
*WILLIS, HULON SIMS A.B., Piedmont College; A.B., M.A., University of California	English	Norman Park, Ga.
WOODRESS, JAMES LESLIE, JR. A.B., Amherst College; A.M., New York University	English	Durham, N. C.
ZITNER, SHELDON PAUL B.A., Brooklyn College; M.A., New York University	English	Brooklyn, N. Y.

## GRADUATE SCHOLARS

ABBOT, WILLIAM WRIGHT, III A.B., University of Georgia	History	Louisville, Ga.
BELLAMY, VIRGINIA NELLE B.S., East Tennessee State College	Religion	LaFollette, Tenn.
BENEDICT, MARGARET ANN B.A., Vassar College	Political Science	Chevy Chase, Md.
DAIL, BERNARD EUGENE A.B., Duke University	Economics	Kinston, N. C.
GEORGIAD, RUTH SAUER A.B., Barnard College of Columbia University	Physiology	Durham, N. C.
GITLIN, EMMANUEL M. B.A., Texas Christian University; B.D., Duke University	Religion	Durham, N. C.
GOUGH, CAROLYNE FRANCES B.A., Marshall College	Political Science	Beechurst, L. I., N. Y.
HAMRICK, EMMETT A.B., University of North Carolina	Religion	Shelby, N. C.
HOBBS, GRIMSLEY TAYLOR A.B., Guilford College	Philosophy	Chapel Hill, N. C.
HOLLYDAY, FREDERIC BLACKMAR M. A.B., Washington and Lee University	History	Michaels, Md.
KING, DORIS ELIZABETH A.B., Georgia State Woman's College at Valdosta; A.M., Duke University	History	Cairo, Ga.
MACKEY, LOUIS HENRY, JR. A.B., Capital University	Philosophy	Sidney, Ohio
MEEK, RAY BURNS B.A., Marshall College	Philosophy	Catlettsburg, Ky.
†POLAYES, IRVING MARTIN A.B., Duke University	Biochemistry	New Haven, Conn.
PUGH, OLIN SHARPE B.S., University of South Carolina	Economics	Prosperity, S. C.
RICHTER, MELISSA LEWIS A.B., Sarah Lawrence College	Biochemistry	White Plains, N. Y.
SHIH, CHUNG-WEN B.S., St. John's University, Shanghai, China	English	Shanghai, China
SHUFORD, HAYWOOD RHYNE, JR. B.A., Wake Forest College	Philosophy	Dallas, N. C.

\* Resigned, January 27, 1949.

† Resigned, November 29, 1948.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
SMART, HUGH ROBERT GEORGE A.B., McGill University	Philosophy	Quebec, Canada
TERRELL, KATHERINE A.B., Duke University	History	Jacksonville, Fla.
THOMAS, MARY OLIVE B.A., Agnes Scott College; A.M., University of North Carolina	English	Auburn, Ala.
WAGNER, FRED REESE A.B., Duke University	English	Haddonfield, N. J.
WHITEHEAD, MARY ELIZABETH A.B., Birmingham-Southern College	Romance Languages	Birmingham, Ala.
WINER, RUTH CECILE A.B., Queens College	Economics	Flushing, N. Y.

## **THE COLLEGES**

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### **GENERAL STATEMENT**

Duke University offers in Trinity College, the Woman's College, and the College of Engineering four academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, Bachelor of Science in Nursing Education, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering.

### **TRINITY COLLEGE**

Trinity College is the undergraduate college of arts and sciences for the men of Duke University and is situated on the West Campus as are the College of Engineering, the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the Divinity School.

### **THE WOMAN'S COLLEGE**

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

### **THE COLLEGE OF ENGINEERING**

Duke University, through the College of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering, with an aeronautics option for mechanical engineers.

### **THE LIBRARIES**

The University Libraries contained 927,701 volumes and more than a million manuscripts at the end of the school year 1947-48. Many additional hundreds of rare books, periodicals and newspapers are available in the 2,500 reels of microfilm which the Library possesses. Seventy foreign and domestic newspapers and about 3,600 periodicals are received currently.

The General Library, in which about 600,000 volumes are shelved, is centrally located on the West Campus. The Undergraduate Reading Room on the first floor contains a selected collection of 3,000 books for general reading, together with an equal number of supplementary volumes reserved for undergraduate courses. One of the features of this unit of the Library is an attractively furnished room opening off the Undergraduate Reading Room, with a selection of current books of general interest on open shelves. The main reference room of the Library, containing 5,000 volumes of important reference works of a general character, is on the second floor. Nearby is the Loan Desk, where books may be borrowed from the stacks; and the Union card catalog, a record of all the books in the University Libraries. In the same general area is the

Documents Room, which houses the official publications of the federal and state government. These areas are open to all students.

The General Library building has been doubled in size by the completion of an addition which was begun in 1947. This new area contains stacks, special reading rooms, offices for staff and faculty, and reading and storage facilities for rare books and manuscripts. The entire area for book storage, rare books and manuscripts is air-conditioned. Seniors, honor students, and others undertaking special studies may be admitted to the stacks of the General Library.

The Chemistry library of 12,733 volumes, the Physics-Mathematics library of 12,076 volumes, the Biology-Forestry library of 38,194 volumes, are housed for the convenience of the faculty and students in the buildings of these departments. The libraries of the schools of Divinity (43,986), Law (87,093), and Medicine (46,516), and the College of Engineering (11,357) likewise are shelved in the buildings of these special schools. Undergraduate students may, if occasion demands, have access to material in any of the libraries.

The Woman's College Library contains 75,986 volumes, chiefly the books most constantly needed in the undergraduate work of women students. An attractive feature of the library is the Booklovers' Room, where on open shelves students may find interesting books in various fields. In honor of Mr. James A. Thomas, the Thomas Memorial Room was opened in December, 1942, affording a quiet, attractive place for study or reading. The decorations and furnishings in the room were provided by Chinese and American friends of Mr. Thomas.

#### **THE NAVAL RESERVE OFFICERS TRAINING CORPS**

The postwar NROTC was established by Public Law 729, signed by the President on August 13, 1946. This law, commonly known as the Holloway Plan, instituted the selection and training of officer candidates for the Navy and Marine Corps by means of Naval Scholarships in colleges and universities throughout the country. An NROTC unit, under the command of the Professor of Naval Science, a Captain in the Regular Navy, is located in Duke University and fifty-one other universities and colleges.

The purpose of the new NROTC is to provide a steady supply of well-educated junior officers for the line and staff corps of the regular Navy and to build up a reserve of trained officers who will be ready to serve their country at a moment's notice in a national emergency. NROTC graduates will be given equal rank, equal treatment, and equal opportunities with the graduates of the United States Naval Academy.

Officer candidates under Public Law 729 are designated as regular NROTC students and appointed Midshipmen, U.S.N.R. A total enrollment in the NROTC college units of 14,000 regular students is authorized. These students are selected as a result of an annual nation-wide test and selection procedure prescribed by the Bureau of Naval Personnel.

Regular NROTC students will be granted the following compensation and benefits:



The cost of tuition, fees, and textbooks will be paid by the government. Necessary uniforms will be provided by the government, and students will receive retainer pay for other expenses during college at the rate of \$600 per year. Normally students will attend college for four years. While in college they may take any course leading to a baccalaureate or higher degree, but must include therein 24 semester hours or equivalent quarter hours of Naval Science, plus certain minimum requirements in mathematics, physics, and English. They will wear the uniform only when engaged in drills or other Naval activities prescribed by the Professor of Naval Science, and, except for the ordinary requirements of gentlemanly conduct, will be subject to naval discipline only at those times. They will be required to make two summer cruises and take one summer period of aviation indoctrination, lasting from six to eight weeks each, and, upon graduation, must accept a commission as Ensign, U.S.N., or Second Lieutenant, U.S.M.C., if offered. After from fifteen months to two years of active duty they will be given the chance to serve an additional year and to apply for a permanent commission in the regular Navy or Marine Corps. If they do not choose a career in the regular Navy or Marine Corps, they will be required to accept a commission in the Naval Reserve or Marine Corps Reserve, such commission not to be resigned prior to the sixth anniversary of receiving their first commissions as Ensigns. Save at their own request reserve officers are not called to active duty except during war or a national emergency.

There are two other types of officer candidates:

(a) Contract NROTC Students have the status of civilians who have entered into a mutual contract with the Navy. They will be selected from qualified students regularly enrolled in Duke University. They are not entitled to the compensation or benefits paid Regular NROTC Students. Complete uniforms, all books and equipment that the student needs in the Naval Science course are lent to him without cost.

Contract students are paid an allowance for subsistence (currently \$1.05 per day), during their final two years of NROTC Training. In addition students are allowed the Navy Seventh Grade pay while on the practice cruise. Contract students agree to accept a commission in the Naval Reserve or the Marine Corps Reserve but may, if they so desire and if their services are required, be commissioned as Ensigns, U.S.N., or Second Lieutenants, U.S.M.C., and serve for two years on active duty. They may then apply, if they so desire, for retention in the service. Contract NROTC Students are required to make one summer practice cruise.

(b) Naval Science Students. (1) With the approval of the academic authorities, students who are ineligible for enrollment in the NROTC solely because they are in excess of the allowed quota of the unit, may be permitted to pursue Naval Science courses for college credits. They are not eligible to make NROTC practice cruises nor to be paid any compensation or benefits.

(2) Naval Science Students may become eligible for enrollment in

the NROTC as candidates for commissions provided they comply in every respect with the requirements for original enrollment, when vacancies occur in the Unit quota.

Under the provisions of the Selective Service Act of 1948 Regular NROTC Students, who must serve a period of active duty as an integral part of their training under Public Law 729, are deferred from Selective Service. Contract NROTC Students are required upon enrollment to execute an agreement to accept a commission upon graduation, if offered, and to serve on active duty for a period of two years, if required. By virtue of this agreement, they are deferred from Selective Service. All NROTC students are considered on *inactive* duty in the Naval Reserve while in college, and such service may *not* be counted for exemption or deferment under the Selective Service Act, should a student be separated from the program for any reason.

## ADMISSION TO TRINITY COLLEGE AND THE WOMAN'S COLLEGE

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Applicants may qualify for admission to Trinity College or the Woman's College as members of the Freshman Class or as students with advanced standing. Since the enrollment in the two colleges is limited, the Committee on Admissions will select the students who, in its opinion, are best qualified to benefit from the educational advantages which the colleges offer.

### APPLICATION FOR ADMISSION

Application for admission to Trinity College should be made to the Secretary of Duke University, Duke Station, Durham, North Carolina, for transmittal to the Council on Admissions. Application for admission to the Woman's College should be made to the Committee on Admissions, College Station, Durham, North Carolina. Forms of application will be sent on request.

### GENERAL REQUIREMENTS

Admission to Trinity College and to the Woman's College is dependent upon the ability, attainments, and character of the applicant. Each applicant must see that the Committee on Admissions receives a complete record of his work in secondary school or college, the required medical certificate, and satisfactory evidence of his good character and ability.

### SPECIFIC REQUIREMENTS

An applicant for admission to the Freshman Class must present at least fifteen acceptable units of secondary school credit. A unit of credit is allowed for a course of study pursued throughout an academic year in an accredited secondary school, if five recitations per week have been held and the prescribed amount of work has been completed satisfactorily.

1. Twelve units must be in English, foreign language, history and social studies, mathematics, and natural science; and must include:
  - (a) English—3 units.
  - (b) Algebra—1 unit.
  - (c) Plane geometry—1 unit.
2. The three additional units may be in the subjects listed above or from those in the following table. The units indicate the maximum amount of credit acceptable in each subject:

SUBJECT	UNITS	SUBJECT	UNITS
Agriculture .....	2	Mechanical Drawing .....	2
Art .....	1	Music .....	1
Commercial Subjects .....	3	Physical Geography .....	1
Household Economics .....	2	Woodworking, Machine Work ....	2

Other units offered in subjects not included in this list will be considered for acceptance on the basis of full statements transmitted with the applicant's record from the school recommending him.

**ADMISSION BY CERTIFICATE**

A graduate of an accredited school, who submits fifteen acceptable units of secondary school subjects, is recommended by his principal, and otherwise meets the requirements of the Admissions Committee, may be admitted without examination. The certification and recommendation must be on blanks furnished by the College and signed by the principal of the school in which the applicant completed his course.

**ADMISSION BY EXAMINATION**

An applicant who presents fifteen acceptable units for admission from a nonaccredited school is required to validate these units by entrance examinations and such other tests as the College may prescribe.

**ADMISSION WITH ADVANCED STANDING**

A student of good character who has completed satisfactorily at least one full year of college work in an approved college may be admitted with advanced standing. He must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work completed in other institutions, and have honorable dismissal from each institution previously attended. Credit for work completed will be determined in relation to the curriculum of Trinity College or the Woman's College.

A student enrolling for the Bachelor's degree who transfers from a junior college, or from a four-year college not affiliated with the Southern Association or a similar regional association, is under all circumstances required to continue, for at least one semester in Trinity College or in the Woman's College, the foreign language he presents for minimum graduation requirements.

A student who has transferred from a junior college, or from a four-year college not affiliated with the Southern Association or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit. The maximum amount of credit acceptable from a junior college is sixty semester hours.

Transfer credits are tentatively evaluated pending the completion of two semesters' work in residence. To validate provisional credits the student must earn at least an average of "C" in a normal load of work. Transfer grades of "C" or above are rated at one quality point per credit hour when validated.

No credit is given for work completed by correspondence, and not more than six semester hours credit is allowed for extension courses. Any extension work accepted must be specifically approved by the Dean of the College.

**ADMISSION FOR SPECIAL WORK**

Upon the approval of the Dean, a student of mature age may be admitted for special work in such courses of instruction as he is qualified to take, but not as a candidate for a degree in a regular course unless he meets all requirements for admission.

**READMISSION OF FORMER STUDENTS**

A student, who, following withdrawal from College, desires to return to the College, should apply to the Dean for readmission. If a student has completed during his absence from the College any undergraduate work in another institution of approved standing, he must submit an official transcript of this work, with a statement of honorable dismissal, from that institution.

**PRELIMINARY TESTS AND EXAMINATIONS**

During the orientation period all Freshmen are given placement tests in chemistry, English, mathematics, and the foreign languages they are to continue. On the results of these tests and general ability tests, students are assigned to the proper sections of their respective academic subjects. Physical examinations are also given.



## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

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The requirements for the degree of Bachelor of Arts are based on the principle that the student will derive the maximum benefit from his college work if his program includes a broad distribution of studies among representative fields of culture, concentration within a special field, and some work of his own choice.

For graduation with the degree of Bachelor of Arts, the following course work must be completed in accordance with the Academic Regulations as stated on pages 157-161 of this Bulletin.

<i>Uniform Course Requirements</i>	S.H.
English Composition .....	6
Foreign Language .....	6-18
Natural Science .....	11
Religion .....	6
Social Science and History .....	12
Literature, Music, Art, and Philosophy .....	6
Physical Education .....	4
<i>Major and Related Work</i> .....	42
<i>Electives to make a total of</i> .....	124

These requirements are described in detail below. Descriptions of courses can be found under "Courses of Instruction, Trinity College and the Woman's College."

**English Composition, 6 s.h.**—This requirement is met by the completion of English 1-2. Students who demonstrate proficiency in English usage may be allowed to substitute a course in English literature for English 1.

**Foreign Language, 6 to 18 s.h.**—This requirement is met by the completion of the third college year of a foreign language. The languages which meet this requirement are French, German, Greek, Latin, Spanish. The number of courses required depends on previous training and ability as shown on placement tests. Students presenting for entrance four units of Latin may, however, satisfy the language requirement by the completion of the third college year of Latin or by two years of Greek. In exceptional cases, on the recommendation of the language department concerned and with the approval of the Dean, a student who has completed the second college year of one language may satisfy the requirement by the completion of the first year of another language.

**Natural Science, 11 s.h.**—To satisfy this requirement a student must complete a laboratory course (8 s.h.) in one of the natural sciences (botany, chemistry, geology, physics, zoology), and one course of at least 3 s.h. selected from mathematics (except Mathematics 1), logic and scientific methodology (Philosophy 48, 104, and 242), or from the sciences listed above.

**Religion, 6 s.h.**—To meet this requirement 6 s.h. must be chosen from Religion 1, 2, 51, 52, 101, 103, 114, 181, 182, 183, or Philosophy 99.

**Social Science and History, 12 s.h.**—(a) Students who present for entrance two acceptable units of history can satisfy this requirement by 12 s.h. chosen from History 1-2, or 51-52, Economics 51-52, Education 84, 105, Political

Science 61-62, Psychology 91-92, Sociology 91-92. Six of the 12 s.h. must be taken in economics, history, political science, or sociology. (b) Students who do not present for entrance two acceptable units of history must take History 1-2, or 51-52, and 6 s.h. selected from the other social sciences named in (a).

**Literature, Music, Art, and Philosophy, 6 s.h.**—This requirement can be satisfied by a total of 6 s.h. in courses in English or American literature, foreign literature courses numbered above 100, literature courses in translation, courses in aesthetics, art, music, or Philosophy 91, 93, or 94.

**Physical Education, 4 s.h.**—In Trinity College physical education is required during each of the first two years and is normally completed by the end of the Sophomore year; in the Woman's College it is required during the first three years and is normally completed by the end of the Junior year.

**Major and Related Work, 42 s.h.**—Prior to registration in the spring of his Sophomore year, each student is required to choose his major field and confer with his departmental adviser on the requirements for major and related work.

The major work consists of 18 to 24 s.h. in one department exclusive of courses open primarily to Freshmen.\* The choice of courses must be approved by the major department. The related work must be taken in at least two other departments and is selected subject to the approval of the major department and the Dean; it may not include more than one course of 6 or 8 s.h. open primarily to Freshmen. Courses satisfying the uniform course requirements may also be counted toward the requirements in major and related work. Information on specific departmental requirements for major and related work can be found in the section "Courses of Instruction" (page 69), and several programs of study designed as preparation for professions are given in the next section.

The total amount of work that a student may take in any one department toward the Bachelor of Arts degree is limited to a maximum of 36 s.h. In the Department of Aesthetics, Art, and Music, and the Department of Philosophy, the Department of English, the Department of Economics and Business Administration, and the Department of Romance Languages, a total of 54 s.h. is permitted, provided a total of not more than 36 s.h. is taken in any one division of the department.

**Electives.**—In addition to the uniform courses required and major and related work, other courses must be completed to make a total of at least 124 s.h.

Students whose courses of study permit may elect a maximum of 18 s.h. in Engineering, Forestry, or Medical Sciences. The courses elected in these subjects must be those approved by the Faculty Council as appropriate for the Bachelor of Arts degree and published in this Bulletin.

### CHOICE OF A MAJOR FIELD

The requirement of 42 s.h. in a major field is based primarily on the belief that some advanced study in one subject, together with related work in allied subjects, is a valuable part of a general education. The selection of a major field usually depends on a student's cultural or vocational interests.

### GENERAL PROGRAM

The General Program is designed for the student whose primary interest is in one of the liberal arts subjects. The subjects in which major work is offered are: Art, Botany, Chemistry, Economics, Education,

\* Courses open primarily to Freshmen are numbered from 1 to 49 and a list of them is given under "Courses of Instruction, Trinity College and the Woman's College."

English, French, Geology, German, Greek, History, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Religion, Sociology, Spanish, Zoology.

### SPECIALIZED PROGRAMS

The student who has chosen a vocation may wish to include specialized training in his program. The following programs of study in preparation for various professions or professional schools are outlined for the student's guidance.

#### BUSINESS

The student who plans to engage in some form of business may choose his major work in economics or he may take the following specified courses to satisfy the requirements for the major and related work.

Freshman Year: Economics 11 (recommended but not required), Mathematics 5 and 16.

Sophomore Year: Economics 51-52, Economics 57-58, Political Science 61-62.

Junior and Senior Years: Economics 138, Economics 143, Economics 144, Economics 153, Economics 171-172 or Economics 105 and 158, Economics 181-182, Economics 189. Three hours of the Economics courses shown in Economics Major Section B.

In addition to the courses specified above, 9 s.h. from other courses in the Department of Economics and Business Administration must be elected.

A student planning to take the examination to qualify as a Certified Public Accountant may, with the permission of the Department of Economics, substitute courses in accounting (including Economics 184) for courses 11, 138, 144, 189, and for 3 s.h. of the electives in Section B (page 86).

#### RELIGIOUS WORK

A student who plans to enter the ministry or other religious work should have a broad liberal arts training and may major in religion or any other subject. It is suggested that the student include in his program as many as possible of the following courses.

Freshman Year: Religion 1-2, History 1-2.

Sophomore Year: Religion (6 s.h.), Economics 51-52 or Political Science 61-62, English Literature (6 s.h.).

Junior Year: Religion (6 s.h.), Psychology 91-92, English 151-152.

Senior Year: Religion (6 s.h.), Sociology (6 s.h.), Philosophy (6 s.h.).

#### SOCIAL WORK

The student who plans to pursue professional studies in preparation for social work (such as family welfare, child welfare, public welfare, probation and parole and similar forms of neighborhood and community

work) should take his major work in sociology, with related work in other social sciences. The following courses should be included.

History 1-2, or 51-52.

Economics 51-52.

Political Science 61-62.

Psychology 91-92.

Philosophy (6 s.h.).

Zoology is recommended for the required course in Natural Science. Electives should be chosen mainly from History, Economics, Political Science, Education, Sociology, Philosophy, Psychology, or Religion.

#### TEACHING

The program for students who intend to teach is designed to prepare for positions both in the elementary school and in the high school. All prospective teachers, regardless of the type of school in which they expect to teach, (a) must take a sequence of four basic courses in the Department of Education, namely, Education 84, 88, 101, and 110 (the combination of Education 8 and 68 may be substituted for Education 88); (b) should read carefully the certification requirements of the state in which they plan to teach and should arrange their programs with their departmental adviser accordingly; and (c) should begin early the required sequence of courses in Education, taking Education 84 and/or 88 first, preferably in the first semester of the Sophomore year.

**High School Teaching.** Students may meet certification requirements by qualifying in one teaching subject, but they are strongly advised to choose their electives to meet requirements in two teaching subjects. In any case their programs must include courses in education and in other subjects sufficient to satisfy the certification requirements of the state in which they will teach. Courses in materials and methods should be reserved for the Senior year; and courses in observation and practice teaching may be taken *only* in the Senior year.

**Elementary School Teaching.** Students preparing to teach in the elementary school must complete the following specific requirements: Education 142, History 91 or 92, and Political Science 63 or 61-62, Economics 115-116, Music 151, Physical Education 102, and Health Education 112. Education 101, the materials and methods courses, and observation and practice teaching should be reserved for the Senior year.

#### PREPARATION FOR GRADUATE SCHOOL

The student who plans to enter a graduate school of arts and sciences for advanced study should consult an adviser in the field of the proposed advanced study concerning suitable preparation. Most graduate schools have definite requirements in foreign languages for all students. Candidates for the degree of Doctor of Philosophy are required to pass reading examinations, usually in German and French. In some cases other languages may be substituted. As soon as practicable, the student should ascertain the requirements of the particular graduate school he desires to enter.



**PREPARATION FOR LAW SCHOOL**

Students who plan to study law may select their major work in any field. The following courses are recommended:

- Economics 51-52, 57-58.
- English 101-102.
- History 1-2 or 51-52, 105-106.
- Philosophy 48 and 101.
- Political Science 61-62.
- Sociology 91-92.

Advisers for the pre-legal students are: Dr. Clark Allen, Dr. J. H. Hallowell, and Dr. W. H. Hamilton.

**PREPARATION FOR MEDICAL OR DENTAL SCHOOL**

Students planning to enter a medical or dental school should select the following foundation courses for the study of medicine:

- Chemistry 1-2, 61, 151-152.
- Mathematics 2, 5.
- Physics 51-52.
- Zoology 1-2, 53.

Pre-medical and pre-dental students may take their major work in a single department, or they may satisfy the requirement for the major and related work by the completion of at least 13 semester hours chosen from the following courses in addition to the 48 semester hours of foundation courses above:

- Botany 101 or Zoology 110.
- Chemistry 70.
- Mathematics 51, 52.
- Physics 101-102.
- Psychology 91-92.
- Zoology 92, 171.

Other science courses numbered above 100 may be substituted for these with the approval of an adviser for the pre-medical group and the Dean. When the major work is in science, electives in social sciences or humanities are recommended. It is advisable to choose German or French as the foreign language. Each pre-medical student should ascertain the requirements and recommended courses of the medical school that he expects to attend.

Advisers for the pre-medical students are: Dr. David W. Carpenter, Dr. Mychyle W. Johnson, and Dr. John H. Saylor.

**HONORS PROGRAM**

*Purpose:* Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and



intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

*General Rules:*

I. A student who has sixty-two semester hours of work to his credit and who has completed the minimum requirements for graduation may apply to read for Honors. A departmental committee may, however, permit students to take as much as twelve hours of the minimum uniform requirements in the Junior and Senior years provided that these are offset by the same number of hours in related subjects taken previously in courses not open primarily to Freshmen.

II. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

III. The minimum amount of work that may be taken in the major department shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours.

IV. The related work, which constitutes at least two-fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

*Departmental Honors:* Honors courses are available to qualified students in the following departments: Botany, Chemistry, Economics, Education, English, German, Greek, History, Physics, Psychology, and Religion.

An undergraduate wishing to qualify for Departmental Honors usually enters the General Group during the Freshman year. At the close of the Sophomore year he may apply to read for Honors in a particular department. The requirements for admission to candidacy for Honors vary in the different departments. The student should consult the special requirements set forth in the "Departmental Honors Program." The Departmental Committee determines the eligibility of the various applicants for Honors reading within the department.

Transfer students from colleges of approved standing may be admitted to candidacy for Honors provided they enter here as Sophomores with high records in their chosen field of work. They should consult by April 15 the Honors Adviser of the Department in which they are interested.

The work required of students in the Departmental Honors Group consists of (1) the minimum uniform requirements; (2) the program of Honors for the Junior and Senior years; and (3) elective work sufficient to complete the semester hours necessary for graduation.

Study in a Departmental Honors course always includes work in regular open courses. In both Junior and Senior years it may, and usually does, also include work under special Instruction (seminarial or tutorial) and assignments of independent reading.

All candidates who complete satisfactorily the minimum uniform requirements, a Departmental Honors course, and elective work sufficient to earn the necessary hours for graduation will be recommended by the Departmental Committee to the Dean of the College for graduation with Honors.

For brief outlines of the various plans for Departmental Honors the student should see the section, "Departmental Honors Program," among the offerings of each department listed above. Students are also urged to consult the honors adviser of the department in which they are primarily interested. A list of these advisers follows:

Botany: Miss Addoms  
Chemistry: Mr. Vosburgh  
Education: Mr. Proctor  
English: Mr. Irving

German: Mr. Vollmer  
History: Mr. Laprade  
Physics: Mr. Hatley  
Psychology: Mr. Zener  
Religion: Mr. Myers

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

The general regulations governing the requirements for the degree of Bachelor of Science are the same as those for the degree of Bachelor of Arts. The program of study required for this degree must include:

	S.H.
English 1-2 .....	6
French and German (second college year) .....	12-24
Mathematics .....	6
Natural Science .....	8
Economics, History, or Political Science .....	6
Religion .....	6
Physical Education .....	4
Major and related work .....	48
Free electives to make a total of .....	124

**English 1-2, 6 s.h.**—This requirement is normally met by the completion of English 1 and 2. A Freshman whose scores on the placement tests are too low to justify his admission into English 1 is required to earn credit for English I before he may enter English 1. A Freshman who satisfies the Department of English of his superior ability in composition may substitute, however, another English course for English 1.

**French and German.**—Bachelor of Science candidates must complete at least the second college year, or equivalent as determined by examination, of both French and German.

**Mathematics, 6 s.h.**—This requirement may be met by completion of Mathematics 2 and 5.

**Natural Science, 8 s.h.**—This requirement can be satisfied by courses in one of the natural sciences, namely, Botany, Chemistry, Geology, Physics, and Zoology. The courses must include laboratory work, and may not be counted as part of the major or related work.

**Economics, History, or Political Science, 6 s.h.**—A student who does not present for entrance two acceptable units of history (exclusive of other social work) must take a course in history; otherwise, he has his choice of economics, history, or political science. The courses that will satisfy this requirement are listed under "Courses of Instruction."

**Religion, 6 s.h.**—The courses that will satisfy the requirement in Religion are listed in this Bulletin under "Courses of Instruction."

**Major and Related Work, 48 s.h.**—Major and related work consists of forty-eight semester hours in the Division of Natural Sciences. This work must be selected from the Departments of Botany, Chemistry, Geology, Mathematics, Physics, Psychology, and Zoology. The major work consists of not less than twenty-four semester hours in one department, the choice of courses being subject to the approval of the department. The major work does not include courses primarily open to Freshmen. The related work is taken in at least two other departments and is selected subject to the approval of the major department. It may not include more than one course primarily open to Freshmen. A minimum of eight semester hours of the total of forty-eight must be

in laboratory science. Further information concerning the requirements for the major and related work in the various departments will be found under "Courses of Instruction."

**Free Electives.**—In addition to the above, the student must elect sufficient courses to complete, with an average grade of "C," the one hundred and twenty-four semester hours necessary for graduation.

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of forty semester hours.

No Senior may take for credit any course primarily open to Freshmen, and no Junior may take for credit more than one course primarily open to Freshmen. A list of these courses is published under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

On or before the date announced for the spring registration, every Sophomore in this group should select his major department in the Division of Natural Sciences and arrange under the guidance of an adviser in the major department his program of studies for the following year. He should obtain the adviser's written approval of all courses selected in the division before submitting his program to the Dean for final action. In like manner, each upperclassman will recheck the courses in his division of concentration each year with a representative of his major department.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING EDUCATION

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The requirements for the degree of Bachelor of Science in Nursing Education are designed to prepare qualified graduate nurses for administrative, teaching, and supervisory positions in schools of nursing and in nursing service agencies.

To be eligible for admission to Duke University as a candidate for this degree a student must meet the following requirements:

1. Graduation from an approved secondary school with at least fifteen acceptable units of credit. (See specific requirements for admission to Trinity College and the Woman's College.)
2. Graduation from an approved school of nursing which provides satisfactory preparation in medical, surgical, pediatric, and obstetric nursing, as a minimum.
3. Satisfactory scores on specified tests.
4. Satisfactory ratings from three individuals, preferably former teachers and supervisors with whom the individual has had fairly recent contact.

Credit for 120 semester hours (exclusive of physical education) on which an average grade of at least "C" is made is required for the degree of Bachelor of Science in Nursing Education. The work of the final year must be taken in residence at Duke University. The program of studies leading to this degree must include:

1. Minimum general education requirements:

May be taken at Duke University or at any accredited college or university.

	S.H.
English 1-2 .....	6
Natural science .....	8
History, economics, or political science .....	6
Sociology .....	3-6
Psychology .....	3-6
Electives .....	12-18
(Literature, art, music, religion, ethics, language are suggested.)	

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38-50

2. Basic Nursing Program ..... 40 (maximum)  
 May be taken at the Duke School of Nursing or at any approved school of nursing. The amount of credit which is granted for the nursing school program is determined on an individual basis.



3. Courses in Education and Nursing Education:

S.H.

88 Psychological Foundations of Modern Education .....	3
110 Introduction to Measurement and Research in Education	3
84N Social Foundations of Nursing Education .....	3
101N The Curriculum of the School of Nursing .....	3
115N Nursing Education—Principles	
116N and Practices .....	6
117 Community Nursing Service—Seminar in Field Trips of Community Agencies .....	2
	—
	20
4. Field of Concentration .....	16
Sixteen semester hours in one field, such as chemistry, physics, psychology, sociology, zoology, or in a clinical area and related subjects. No Freshman work may be included in these sixteen semester hours.	
5. Professional Experience:	
One year of experience as a graduate nurse is required before the degree is awarded.	

## COMBINED ACADEMIC-PROFESSIONAL COURSES

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The provision whereby a Senior may elect the work of the first year in a professional school of the University shall apply solely to eligible students in Trinity College or the Woman's College. The privilege of completing a combined course for the degree is conditioned upon admission to the professional school at the close of the Junior year. A student thus admitted registers as a Senior in the College and as a first-year student in the professional school.

### ACADEMIC-LAW COMBINATION

A student who has completed, with an average grade of "C" or higher, ninety-six semester hours of undergraduate work, including the minimum uniform requirements for the degree of Bachelor of Arts and the work of the Junior year in the division of concentration, may, with the approval of the Dean of the College, transfer to the Duke University School of Law and be eligible for the degree of Bachelor of Arts from Duke University upon the satisfactory completion therein of the work of the first year.

It is understood that this provision shall apply solely to eligible undergraduates who have completed three years in residence in Duke University, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the bachelor degree.

No single discipline or program of study can be described as the best preparation for the study of law. There are various methods of approach to legal study, and the students differ with respect to the undergraduate studies by which they profit most in preparing themselves for law school.

Completion of the undergraduate work necessary to qualify for the Academic-Law Combination does not insure admission to the Duke University School of Law, nor impose any restriction whatever upon its freedom in selecting students for admission.

The student who does not desire to avail himself of the Academic-Law Combination above set forth may, nevertheless, enter the Law School when he has satisfactorily completed three years of academic study and has met the other entrance requirements of that school. In the case of veterans with good college records, military service may be substituted for one year of the three-year entrance requirement.

Students wishing information concerning admission to the School of Law are invited to consult with the Dean of that school.

### ACADEMIC-FORESTRY COMBINATION

A student who has completed with an average grade of "C" or higher the program of study given below may, with the approval of the Dean of the College, transfer to the School of Forestry and be eligible for the degree of Bachelor of Science from Duke University upon the satisfac-

tory completion of one year's work. It is understood that this provision shall apply solely to eligible undergraduates who have completed three years in residence in Duke University. The professional degree of Master of Forestry may be obtained on the satisfactory completion of an additional year in the School of Forestry.

The program of studies in preparation for admission to the School of Forestry is divided into four parts: (1) a group of studies required of all students; (2) courses required in a selected division of concentration; (3) addition elective courses sufficient to make a total of at least 92 semester hours of credit; and (4) summer field work in surveying and forest mensuration as described below.

The studies required of all students, of which the first four, together with six semester hours of a language, should ordinarily be taken in the Freshman year, are as follows:

	S.H.
Botany 1-2 .....	8
Chemistry 1-2 .....	8
English 1-2 .....	6
Engineering Drawing 1-2 .....	4
Modern Foreign Language* .....	12-18
Mathematics 2, 5 .....	6
Physics 1-2 .....	8
Economics 51-52 .....	6
Geology 51 .....	4

At the end of the Freshman year each student shall select a division of concentration. One of the following programs of concentration is recommended:

Botany. Botany 52, 151, 156, one additional course in Botany and Zoology 1.

Chemistry. Chemistry 61, 70, and 151-152; and Botany 151.

Economics. Economics 57-58, two additional semester courses in economics, and Political Science 61-62.

A student who does not select one of the above programs must complete the work of the Junior year in a division of concentration.

Summer field work is required of all students in the School of Forestry. This program of 12 weeks, preferably to be taken upon completion of the Junior year, includes Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), 5 s.h.; and Forestry S151 (Forest Mensuration), 4 s.h.

Completion of the first three years of work toward the Bachelor of Science degree does not insure admission to the Duke University School of Forestry, nor impose any restriction whatever upon its freedom in selecting students for admission.

Students wishing information concerning admission to the School of Forestry are invited to consult with the Dean of that School.

### ACADEMIC-NURSING COMBINATION

A student who graduated from the Duke University School of Nursing in September, 1947, or thereafter, with an average grade of "C" or better may, upon recommendation of the Dean of the School of Nursing, apply for admission to the Woman's College of Duke University. If accepted,

\*The requirement is the same as for the Degree of Bachelor of Science, except that Spanish may be substituted for French.

she may obtain the degree of Bachelor of Arts or Bachelor of Science by fulfilling the requirements of either degree.

Forty semester hours of credit toward the 120 semester hours (exclusive of physical education) required for the Bachelor's degree are allowed for the three-year nursing program. At least 30 semester hours must be taken in residence in the Woman's College of which 24 semester hours must be in courses numbered 100 or above. An average grade of "C" or better is required for all work.

The program of studies leading to the degree of Bachelor of Arts must include:

1. Minimum requirements:	S.H.
English 1-2 .....	6
Natural Science .....	8
Language (completion of the third college year) .....	6-18
Religion .....	6
History, economics, or political science .....	6
	<hr/>
	32-44
2. Basic nursing program .....	40
3. Field of concentration:	
At least twelve semester hours in one department other than nursing in courses not primarily open to Freshmen .....	12
4. Electives .....	24-36

To be eligible for the degree of Bachelor of Science, a student must complete the course of study outlined under the Requirements for the Degree of Bachelor of Science.

## COURSES OF INSTRUCTION, TRINITY COLLEGE AND THE WOMAN'S COLLEGE

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*Note: Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.*

*The designation (w) or (E) indicates that the course is to be given on the West Campus or on the East Campus. The designation E means Engineering; L, Law; DS, Dixvinity School. When this designation precedes a course number, the course is not approved for graduate credit.*

*Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year-course and must normally be continued throughout the year if credit is received. A student must secure written permission from the instructor in order to receive credit for either semester of a year-course.*

### COURSES OPEN PRIMARILY TO FRESHMEN

Art 1-2	History 1-2
Botany 1-2	Latin 1-2, 3, 4
Chemistry 1-2	Mathematics 1, 2, 5, 15, 16
Economics 11	Music 1-2, 11-12
Education 1, 8	Philosophy 48
English 1-2	Physical Education 1, 2
French 1-2, 3-4	Physics 1-2
German 1-2, 3-4	Political Science 21-22
Greek 15	Religion 1-2
Health Education 41	Spanish 1-2, 3-4
	Zoology 1-2

### AESTHETICS, ART, AND MUSIC

PROFESSOR KATHARINE GILBERT, CHAIRMAN; ASSISTANT PROFESSOR SUNDERLAND, DIRECTOR OF UNDERGRADUATE STUDIES IN ART; ASSOCIATE PROFESSOR HALL, SUPERVISOR OF FRESHMAN INSTRUCTION IN ART; ASSISTANT PROFESSOR BONE, DIRECTOR OF UNDERGRADUATE STUDIES IN MUSIC; MRS. MUELLER, SUPERVISOR OF FRESHMAN INSTRUCTION IN MUSIC; ASSISTANT PROFESSORS KLENZ, MARKMAN, AND MUELLER; MRS. SAVILLE

#### AESTHETICS

##### FOR SENIORS AND GRADUATES

**201-202. The Philosophy of Art.**—Analysis with the aid of examples of general terms used in the discussion of art. Reference to recent aesthetic theories. **6 s.h. (E)** PROFESSOR GILBERT

**213-214. History of Aesthetics.**—Theories of art and beauty from Pythagoras to Croce. **6 s.h. (E)** PROFESSOR GILBERT

#### ART

**1-2. History of Art.**—An introductory course for Freshmen, designed to help the new student in relating the different manifestations of art in each period to the civilization that produced them. Open to Freshmen only. **6 s.h. (E)** ASSOCIATE PROFESSOR HALL



**51-52. History of Art.**—An historical survey of the development of architecture, sculpture, and painting as material manifestations of the culture of the western world from Egypt to modern times. Open to upperclassmen who have not had Art 1-2 or 61-62. 6 s.h. (E & W) ASSISTANT PROFESSOR MARKMAN

**53-54. Theory of Representation and Design.**—A study of the basic elements in art and the principles of their organization, with reference to pure and representational forms in historical and contemporary usage. No previous experience in drawing and painting is required. One lecture and four laboratory hours. Open to students who are enrolled in, or have completed, a year-course in the Department. 6 s.h. (E) ASSISTANT PROFESSOR MUELLER

**55-56. Art Laboratory.**—A course in drawing and painting or design, as elected by the student. Individual and class criticism of student work, with investigation and discussion of contemporary developments in painting and design. Four laboratory hours. Open to students who are enrolled in, or have completed, a year-course in the Department. Prerequisite: Art 53-54, or consent of the instructor. 4 s.h. (E) ASSISTANT PROFESSOR MUELLER

**61-62. Architectural History and Design.**—An introductory course in the historic development of architectural principles, and their application to elementary problems of design. No previous experience in freehand or technical drawing is required. Two lectures and three laboratory hours. Open to upperclassmen who have not had Art 1-2 or 51-52; and occasionally to Freshmen who present to the instructor evidence of special preparation. 6 s.h. (E) ASSOCIATE PROFESSOR HALL

**94. American Art.**—A study of the formation of a cultural tradition in the United States as seen through examples of architecture, sculpture, and painting, with some reference to the minor arts of furniture, silver, and glass. 3 s.h. (E) ASSISTANT PROFESSOR MUELLER

**101. Mediaeval Architecture.**—A survey of Christian architecture in the Near East and Eastern and Western Europe from the beginnings of the mediaeval style in the late classical period to its disintegration in the fifteenth century. 3 s.h. (E) ASSISTANT PROFESSOR SUNDERLAND

**102. Mediaeval Painting and Sculpture.**—A study of painting and sculpture in Western Europe from the late classical period through the fourteenth century. 3 s.h. (E) ASSISTANT PROFESSOR SUNDERLAND

**103. Renaissance and Baroque Architecture: Italy.**—Architectural patronage of the great families and the Church, as evidenced by the works of individual designers from Brunelleschi through Michelangelo and Palladio to Borromini. 3 s.h. (E) ASSOCIATE PROFESSOR HALL

**104. Renaissance and Baroque Architecture: Spain and the North.**—An inquiry into the extension of Italian Renaissance and Baroque influence in architecture, and its modification under local conditions elsewhere in Europe. 3 s.h. (E) ASSOCIATE PROFESSOR HALL

**105. European Architecture since 1700.**—An analysis of the sources of contemporary European architecture in the historic revival styles and counter-revolts, technical invention and new structural materials, industrial expansion and social planning. 3 s.h. (E) ASSOCIATE PROFESSOR HALL

**106. Architecture of the Americas.**—A study of building in the Western Hemisphere from the Precolumbian cultures to the present with emphasis on the architecture of the United States since the Revolution. 3 s.h. (E) ASSOCIATE PROFESSOR HALL

**110. English Architecture.**—The English home, church, and community, studied as the architectural reflection of continental influences, independent developments in the British Isles, and colonial expansion. This course is intentionally directed toward the interests of students majoring in history or literature. 3 s.h. (E)  
ASSOCIATE PROFESSOR HALL

**123. Renaissance Painting: Italy.**—A study of Italian painting, mainly in Florence, from the end of the fourteenth through the fifteenth century. 3 s.h. (E)  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND

**124. Baroque Painting: Italy.**—An analysis of the character and tendencies of seventeenth-century painting in Italy. 3 s.h. (E)  
ASSISTANT PROFESSOR SUNDERLAND

**125. Renaissance Painting: The North.**—A study of painting in the Netherlands in the fifteenth and sixteenth centuries. 3 s.h. (E)  
ASSISTANT PROFESSOR SUNDERLAND

**126. Baroque Painting: The North.**—A study of the character and tendencies of seventeenth-century painting in Spain, France, and the Lowlands in the seventeenth century. 3 s.h. (E)  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND

**127. Renaissance and Baroque Sculpture: Italy.**—A study of Italian sculpture of the fifteenth, sixteenth, and seventeenth centuries. 3 s.h. (E)  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND

**130. Painting since 1700.**—An investigation of the development of painting from the eighteenth century through Picasso. 3 s.h. (E)  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND

**150. Survey of Painting.**—A history of painting from prehistoric times to the present day intended primarily for students who are not majors in the department. Open to upperclassmen who have not had Art 1-2 or 51-52. Offered each semester. 3 s.h. (E)  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND

**157-158. Advanced Laboratory in Art.**—Emphasis is given to the techniques of various painting and design media. Four laboratory hours. Prerequisite: Art 55-56. 4 s.h. (E)  
ASSISTANT PROFESSOR MUELLER

**215. Religious Art of the Ancient Near East.**—A specialized study of the development of art, particularly architecture and sculpture, as the material expression of religious ideas in Egypt, Mesopotamia, and in part of Syria and Palestine, to the Persian conquest. 3 s.h. (w)  
ASSISTANT PROFESSOR MARKMAN

**216. Religious Art of the Classical World.**—A specialized study of the religious art, particularly architecture and sculpture, of Greece and Rome, with special emphasis on the monuments in the Near East. 3 s.h. (w)  
ASSISTANT PROFESSOR MARKMAN

#### DEPARTMENTAL MAJOR IN ART

*Prerequisite:* Art 1-2 or 51-52 or 61-62.

*Major Requirements:* Art 53-54, and eighteen additional semester hours in the Department.

#### MUSIC

##### THEORY

**11-12. Fundamentals of Music (Theory I).**—The elements of harmony, rhythm, and form; the visual and aural recognition of scales, intervals, triads, and seventh chords, and their functions in relation to the system of tonality;

harmonization of melodies; development of rhythmic discrimination. Designed for those students who wish to pursue a more technical study of music. Open to Freshmen only. 6 s.h. (E) ASSISTANT PROFESSOR KLENZ

61-62. **Fundamentals of Music (Theory I).**—An amplification of Music 11-12. Open to upperclassmen who have not had Music 11-12; and occasionally to Freshmen who present to the instructor evidence of special preparation. 6 s.h. (E) ASSISTANT PROFESSOR KLENZ

73-74. **Harmony and Smaller Forms (Theory II).**—A continuation of Music 11-12, plus analysis and composition of the smaller forms; further development of proficiency in harmonization; continuation of aural training; introductory study of counterpoint. Prerequisite: Music 11-12. 6 s.h. (E) ASSISTANT PROFESSOR KLENZ

117-118. **Advanced Harmony and Counterpoint (Theory III).**—A continuation of Music 73-74. Emphasis upon development of technical and expressive means and stylistic treatment by practical work in composition, and analysis and observation of larger forms; further study of counterpoint. Prerequisites: Music 11-12 and 73-74. 6 s.h. (E) ASSISTANT PROFESSOR KLENZ

121-122. **Orchestration and Conducting.**—The history, technical possibilities, and orchestral use of the instruments of the modern orchestra. Instrumental and some vocal scores will be studied and arrangements made by the class. One laboratory period a week will be devoted to actual participation in or observation of the orchestra. Prerequisite: Music 11-12, or consent of the instructor. 6 s.h. (E) ASSISTANT PROFESSOR BONE

#### HISTORY AND CRITICISM

1-2. **Introduction to Music.**—Rhythm, melody, harmony, form. The instruments of the orchestra and their use. Orchestral, chamber, choral, and operatic music of the Classic and Romantic periods. Designed for those students who wish to acquire a general appreciation of Music. Open only to Freshmen who do not plan to major in Music. 6 s.h. (E) MRS. MUELLER

51-52. **Introduction to Music.**—Content the same as for Music 1-2, but with more emphasis upon individual work. Open to upperclassmen who have not had Music 1-2. 6 s.h. (E) MRS. MUELLER

81-82. **History of Music.**—An historical survey of the evolution of music from ancient times to the present. An elementary study of the basic principles of form and of musical aesthetics to serve as a basis of criticism. Prerequisites: Music 1-2 or 51-52, or 11-12, or consent of the instructor. Either semester may be taken for credit. 6 s.h. (E) MRS. SAVILLE

131-132. **Orchestral Literature.**—The historical background and development of music for the orchestra. A critical and analytical study of orchestral suites, overtures, concerti, symphonies, and symphonic poems from early instrumental combinations of the seventeenth century to the present. Prerequisites: Music 1-2 or 51-52, or consent of the instructor. Either semester may be taken for credit. 6 s.h. (E) ASSISTANT PROFESSOR BONE

137. **Chamber Music.**—A study of form, style, and interpretation of masterpieces of chamber music. Prerequisite: Music 1-2 or 51-52, or 11-12, or consent of the instructor. 3 s.h. (E) MRS. MUELLER

138. **Contemporary Music.**—A critical survey of contemporary stylistic trends and theory in the light of their twentieth-century background. Prerequisite: Music 1-2 or 51-52, or 81-82, or consent of the instructor. 3 s.h. (E) ASSISTANT PROFESSOR KLENZ

141-142. **Choral Literature.**—A survey of choral styles from the Renaissance to the present. A critical analysis of representative sacred and secular forms such as the motet, mass, oratorio, cantata, madrigal, and opera. Prerequisite: Music 1-2 or 51-52, or 81-82, or consent of the instructor. Either semester may be taken for credit. 6 s.h. (E) MRS. SAVILLE



## MUSIC EDUCATION

**101. Vocal Methods.**—Study and observation of the materials and methods of teaching vocal music in the public schools; emphasis on treatment of the changing voice, on part-singing; and on the literature for high school use. Prerequisite: Music 1-2 or 51-52, or 11-12, or 151-152. 3 s.h. (E)

MRS. SAVILLE

**102. Instrumental Methods.**—A study of the materials and methods of teaching orchestral and band instruments, organization, supervision. Observation of work done in the public schools. Literature for the high school orchestra and band. Prerequisite: Music 1-2 or 51-52. 3 s.h. (E)

ASSISTANT PROFESSOR BONE

**151-152. Fundamentals of Music for Education Students.**—Primarily designed for students who desire to qualify for the State Teaching Certificate. Treatment of the child voice, materials and methods of music teaching in the first six grades; music-reading, elementary theory and form. Open to upper-classmen who have not had Music 11-12. Either semester may be taken for credit. 6 s.h. (E)

MRS. SAVILLE

## APPLIED MUSIC

Members of the Department offer instruction in the following media: A. Piano; B. Strings; C. Woodwinds; D. Brass.

A student who plans to take Applied Music should consult with the appropriate faculty member as early as possible before registering for the course offered in his chosen medium at his class level. His proficiency before registration is tested by audition and rated as Grade I-VIII. Upon satisfactory completion of the course his proficiency is again rated, and his Grade recorded as a Roman numeral following the course number; *e.g.*, a Freshman who passes the first semester course in Piano with a proficiency rating of Grade VI is recorded as having completed Music 47A-VI, a Senior who passes the first semester course in Violin with a proficiency rating of Grade II is recorded as having completed Music 197B-II, and so on. This is in addition to the customary letter-grades recorded for students in all courses.

**47A-48A. Piano.**—Freshmen only. 2 s.h. (E) MRS. SAVILLE

**97A-98A. Piano.**—Sophomores only. 2 s.h. (E) MRS. SAVILLE

**147A-148A. Piano.**—Juniors only. 2 s.h. (E) MRS. SAVILLE

**197A-198A. Piano.**—Seniors only. 2 s.h. (E) MRS. SAVILLE

**47B-48B. Strings.**—Freshmen only. 2 s.h. (E)  
Cello: ASSISTANT PROFESSOR KLENZ  
Violin, Viola: MRS. MUELLER

**97B-98B. Strings.**—Sophomores only. 2 s.h. (E)  
Cello: ASSISTANT PROFESSOR KLENZ  
Violin, Viola: MRS. MUELLER

**147B-148B. Strings.**—Juniors only. 2 s.h. (E)  
Cello: ASSISTANT PROFESSOR KLENZ  
Violin, Viola: MRS. MUELLER

**197B-198B. Strings.**—Seniors only. 2 s.h. (E)  
Cello: ASSISTANT PROFESSOR KLENZ  
Violin, Viola: MRS. MUELLER

**47C-48C. Woodwinds.**—Freshmen only. 2 s.h. (E)  
ASSISTANT PROFESSOR BONE

**97C-98C. Woodwinds.**—Sophomores only. 2 s.h. (E)  
ASSISTANT PROFESSOR BONE

147C-148C. Woodwinds.—Juniors only. 2 s.h. (E)	ASSISTANT PROFESSOR BONE
197C-198C. Woodwinds.—Seniors only. 2 s.h. (E)	ASSISTANT PROFESSOR BONE
47D-48D. Brass.—Freshmen only. 2 s.h. (E)	ASSISTANT PROFESSOR BONE
97D-98D. Brass.—Sophomores only. 2 s.h. (E)	ASSISTANT PROFESSOR BONE
147D-148D. Brass.—Juniors only. 2 s.h. (E)	ASSISTANT PROFESSOR BONE
197D-198D. Brass.—Seniors only. 2 s.h. (E)	ASSISTANT PROFESSOR BONE

*Requirements and Credits:* One semester hour of credit is allowed for  $\frac{1}{2}$  hour of private instruction per week and a minimum of one hour of practice daily, under the particular conditions specified below, and in accordance with standard university practice in grading proficiency. For any number of semester hours of credit in Applied Music, an equal number of hours must be taken in Music Theory or Music History.

Majors in Music Theory or Music History must earn 8 s.h. credit in Applied Music. Credit may be reckoned from Grade I.

Majors in Music Education must earn 12 s.h. in Applied Music, as follows: Instrumental Major—8 s.h. credit in the Major medium, reckoned from Grade V; 4 s.h. credit in a Minor medium, other than piano, reckoned from Grade I. In addition, piano proficiency through Grade II is required.

Students other than Music Majors may receive not more than 8 s.h. nor less than 4 s.h. credit for work in Applied Music. Credit may be reckoned from Grade I.

*Fees per Semester:* Fees for instruction in Applied Music include rental of practice facilities sufficient to meet the credit requirements. They are payable to the Treasurer's Office of Duke University at the beginning of each semester, as follows:

One $\frac{1}{2}$ hour lesson per week for 15 weeks.....	\$40.00
One hour's use daily of cubicle with piano.....	15.00
One hour's use daily of cubicle without piano.....	10.00

#### DEPARTMENTAL MAJOR IN MUSIC

In Music Theory:

*Prerequisite:* Music 11-12.

*Major Requirements:* Music 73-74, 81-82, 117-118, and eight semester hours of Applied Music. The completion of an original large form composition for Chamber group, Chorus, or Orchestra as a synthesis of all requirements; this work to be undertaken in consultation with the faculty.

In Music History and Criticism:

*Prerequisite:* Music 11-12.

*Major Requirements:* Music 81-82, 131-132, 141-142, and eight semester hours of Applied Music.

In Music Education:

*Prerequisite:* Music 11-12.

*Major Requirements:* Music 73-74, 81-82, 101 or 102 or 151 or 152, and twelve semester hours of Applied Music.



## DEPARTMENTAL ORGANIZATIONS

Students taking Applied Music are urged by the Department to participate in one or more of the following departmental organizations:

Duke University Symphony Orchestra  
 Duke University Chamber Orchestra  
 Duke University Concert Band  
 Duke University Madrigal Singers

## BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN; ASSOCIATE PROFESSOR OOSTING, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR ANDERSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR ADDOMS, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS HARRAR, KRAMER AND WOLF; ASSOCIATE PROFESSOR PERRY; MR. WARREN;  
 AND ASSISTANTS

**1. General Botany.**—An introduction to the structure and life-processes of seed plants and the environmental factors influencing their distribution. Laboratory, discussions, and field trips. Three two-hour periods. **4 s.h.**  
 (w & e) **STAFF**

**2. General Botany.**—A survey of the plant kingdom with emphasis on reproduction and an introduction to identification. Three two-hour periods. Prerequisite: Botany 1. **4 s.h.** (w & e) **STAFF**

**51. Culture and Propagation of Plants.**—Experimental studies of the processes involved in growth, and the application of this knowledge to the selection, growth, and propagation of plants. Prerequisite: one year of botany. **4 s.h.** **PROFESSOR ADDOMS**

**52. Plant Identification.**—Practice in the identification of local plants, especially flowering plants, and a study of the principles and rules underlying plant classification. Laboratory, lectures, and field trips. Prerequisite: one year of botany. **4 s.h.** (w) **PROFESSOR BLOMQUIST**

**55. Morphology and Anatomy of Vascular Plants.**—A comparative study of representative ferns and seed plants, including vegetative and reproductive structures. Prerequisite: one year of botany. **4 s.h.** (w)

**ASSOCIATE PROFESSOR OOSTING**

**101. Principles of Heredity.**—The basic principles of heredity and their significance. Lectures, three hours; laboratory, two hours; conference (attendance optional), one hour. Laboratory work includes experimental breeding of the fruit fly. May be taken as a lecture course without laboratory. Prerequisite: one (high-school or college) course in biology, botany, or zoology. High-school or college algebra recommended. **3 or 4 s.h.** (w)

**ASSOCIATE PROFESSOR PERRY**

**103. General Bacteriology.**—A study of the morphology and fundamental physiological processes of bacteria; their relationship to sanitation, public health, soil fertility and food preservation. Prerequisite: one year of botany or zoology, or equivalent. **4 s.h.** (w), *first semester*; (e), *second semester*. **MR. WARREN**

**104. The Structure and Identification of Lower Plants.**—A study of representative examples of algae, fungi, mosses and liverworts, including collection, identification, and classification of common forms. Offered in alternate years. Prerequisite: one year of botany. **4 s.h.** (w) **ASSOCIATE PROFESSOR ANDERSON**

**151. Introductory Plant Physiology.**—The principal physiological processes of plants, including water relations, synthesis and use of foods, and growth phenomena. Prerequisite: Botany 1, 2 or equivalent; one year of chemistry recommended. **4 s.h.** (w) **PROFESSOR KRAMER**

**156. Plant Ecology.**—The principal factors affecting plants and plant communities as they exist in different environments. Laboratory, lectures, and field trips. Prerequisites: Botany 1, 2 and 52, or equivalent. **4 s.h. (w)**

ASSOCIATE PROFESSOR OOSTING

**202. Genetics.**—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and interpretation of data from the breeding of plants. Offered in alternate years. Prerequisites: one year of botany or zoology, or equivalent, and college algebra. **4 s.h. (w)**

[Not offered in 1949-50]

ASSOCIATE PROFESSOR PERRY

**203. Plant Cytology.**—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Offered in alternate years. Prerequisite: one year of botany. **4 s.h. (w)**

PROFESSOR ANDERSON

**204. Advanced Plant Anatomy.**—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Specific reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. **4 s.h. (w)**

PROFESSOR ADDOMS

**216. Botanical Microtechnique.**—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements; drawing, and photomicrography, botanical photography, and lantern slides. Prerequisite: two semesters of botany. **4 s.h. (w)**

ASSOCIATE PROFESSOR ANDERSON

[Not offered in 1949-50]

**221. Structure and Classification of Fungi.**—Prerequisite: two semesters of botany. **4 s.h. (w)**

PROFESSOR WOLF

**222. Physiology and Ecology of Fungi.**—Prerequisite: Botany 221 or equivalent. **4 s.h. (w)**

PROFESSOR WOLF

**225-226. Special Problems.**—Students with adequate training may do special work in the following fields:

a. Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

b. Cytology. ASSOCIATE PROFESSOR ANDERSON

c. Ecology. ASSOCIATE PROFESSOR OOSTING

d. Genetics. ASSOCIATE PROFESSOR PERRY

e. Morphology and Anatomy of Higher Groups.  
PROFESSORS ADDOMS AND HARRAR, AND  
ASSOCIATE PROFESSOR OOSTING

f. Morphology and Taxonomy of Lower Groups.  
PROFESSOR BLUMQUIST AND ASSOCIATE PROFESSOR ANDERSON

g. Physiology. PROFESSORS KRAMER AND ADDOMS

h. Plant Microchemistry. PROFESSOR ADDOMS

i. Taxonomy of Higher Groups. PROFESSOR BLUMQUIST

j. Senior Seminar.—1 s.h. (w) STAFF

**252. Advanced Plant Physiology.**—The physicochemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151 or equivalent; organic chemistry recommended. **4 s.h. (w)**

PROFESSOR KRAMER

**255. Advanced Taxonomy.**—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52 or equivalent. **4 s.h. (w)** PROFESSOR BLOMQUIST

**256. Field Ecology.**—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Offered in alternate years. Prerequisites: Botany 1, 2, and 52 or equivalent. **4 s.h. (w)**

ASSOCIATE PROFESSOR OOSTING

#### FOREST BOTANY

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1, 2. **3 or 4 s.h. (w)** PROFESSOR WOLF

**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. **3 s.h. (w)**

PROFESSOR HARRAR

Related courses which may be counted toward a major in botany. Zoology 110. Introduction to Genetics. **2 s.h. (w)** ASSISTANT PROFESSOR JOHNSON

#### DEPARTMENTAL MAJOR

*Prerequisites:* Botany 1 and 2.

*Major Requirements:* A minimum of twenty-one hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser. All majors are expected to register for Senior Seminar for one semester of their Senior year.

#### DEPARTMENTAL HONORS PROGRAM

*I. Prerequisites:* Botany 1-2. A year course in each of three other sciences acceptable to the Departmental Committee. Some of these may be taken concurrently with the Honors work.

##### *II. Honors Work:*

##### *a. Botany.*

1. Scheduled courses. At least five courses (18-20 semester hours) beyond Botany 1-2.
2. Reading courses and problems, chiefly in the Senior year. Nine semester hours. In addition to scheduled courses, each Honors student will take reading courses in such fields as History of Botany and Theories of Biology; or he may take reading courses in special fields; or he may undertake a special problem; or he may carry on both reading and a problem. This work will count as nine semester hours and will extend through a year at least. The student will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses, and he must make a report on his problem.

##### *b. Philosophy—Six semester hours.*

- c. Electives in Botany or in other departments, subject to the approval of the Departmental Committee.

*III. General Honors Examination:* In the spring semester of the Senior year, each student must pass a general examination on the entire field of his Honors work. The Examining Committee consists of the Departmental Committee and such Advisers as have been concerned with his Honors work. The



student must present a written report upon his problem and such written reports upon his reading as may be required, before he is permitted to take the general examination.

### CHEMISTRY

PROFESSOR GROSS, CHAIRMAN; PROFESSOR SAYLOR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR HILL, SUPERVISOR OF FRESHMAN INSTRUCTION;  
PROFESSORS BIGELOW, HAUSER, LONDON AND VOSBURGH; ASSOCIATE PROFESSORS BROWN AND HOBBS; ASSISTANT PROFESSOR BRADSHER; DRs.  
AMORE, DEWALD, AND STROBEL; MR. THOMPSON,  
AND ASSISTANTS

**1-2. General Inorganic Chemistry.**—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. One lecture, two recitations, and three laboratory hours, throughout the year. **8 s.h.** (w & e)

ASSOCIATE PROFESSOR HILL; ASSOCIATE PROFESSORS HOBBS AND BROWN; ASSISTANT PROFESSOR BRADSHER; DR. AMORE, DR. DEWALD, DR. STROBEL, AND ASSISTANTS

**61. Fundamentals of Analytical Chemistry.**—A study of the reactions of electrolytes in solution and of chemical equilibrium illustrated by laboratory experiments involving the techniques of gravimetric, volumetric, and colorimetric analysis. One lecture, one recitation and six laboratory hours. Prerequisites: Chemistry 1-2, and Mathematics 6 or equivalent. **4 s.h.** (w)

PROFESSORS SAYLOR AND VOSBURGH; ASSOCIATE PROFESSOR HOBBS; DR. DEWALD, DR. STROBEL, AND ASSISTANTS

**70. Quantitative Analysis.**—A study of the theory and technique of inorganic gravimetric and volumetric analysis. One lecture, one recitation, and six laboratory hours. Prerequisite: Chemistry 61. **4 s.h.** (w)

PROFESSORS SAYLOR AND VOSBURGH; ASSOCIATE PROFESSOR HOBBS; DR. DEWALD, DR. STROBEL, AND ASSISTANTS

**131. Advanced Quantitative Analysis.**—A second course in the theory and technique of inorganic analysis with special reference to the analysis of complex materials. One lecture and six laboratory hours. Prerequisite: Chemistry 70. **3 s.h.** (w)

PROFESSORS VOSBURGH AND SAYLOR AND ASSISTANT

**151-152. Organic Chemistry.**—An introduction to the study of the compounds of carbon. Both the aliphatic and the aromatic series are dealt with and the lectures are illustrated by selected laboratory experiments. Two lectures, one recitation, and three laboratory hours. Prerequisite: Chemistry 70. Course 151 is prerequisite for 152. **8 s.h.** (w)

PROFESSORS BIGELOW AND HAUSER; ASSOCIATE PROFESSOR BROWN; ASSISTANT PROFESSOR BRADSHER; AND ASSISTANTS

**206. Elements of Theoretical Chemistry.**—A course in general theoretical chemistry for students who do not present credit in calculus. Credit is not given for both 206 and 261-262. Three recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 51-52 or 1-2 and Mathematics. **6 s.h.**

With the permission of the Director of Graduate Studies, graduate students from other departments may offer other advanced science courses in place of some of these prerequisites. **4 s.h.** (w)

PROFESSORS SAYLOR AND GROSS;  
ASSOCIATE PROFESSOR HOBBS

**215-216. Advanced Inorganic Chemistry.**—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70, 151-152, and 261-262. **6 s.h.** (w)

PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR HILL

**233. Instrumental Analysis.**—Experiments in the use of physical measuring instruments in chemical analysis with special attention to optical instruments. One lecture and three laboratory hours. Prerequisites: Chemistry 70 and one year of physics. 2 s.h. (w) ASSOCIATE PROFESSOR HOBBS; PROFESSORS VOSBURGH AND SAYLOR

**234. Physico-Chemical Methods of Analysis.**—Discussion of physico-chemical principles as applied to methods of instrumental analysis, illustrated by laboratory experiments, with emphasis on methods involving electrical techniques. One lecture and three laboratory hours. Prerequisites: Chemistry 70 and 261-262; the latter may be taken concurrently. 2 s.h. (w)

ASSOCIATE PROFESSOR HOBBS; PROFESSORS VOSBURGH AND SAYLOR

**236. Theory of Analytical Chemistry.**—A study of such topics as precision and errors, theories of precipitation and titration, oxidation and reduction, and others, illustrated by typical analytical methods. One lecture. Prerequisites: Chemistry 70 and 261-262. 1 s.h. PROFESSOR VOSBURGH

**251. Qualitative Organic Analysis.**—Systematic identification of organic compounds, including a study of solubilities and classification reactions. One lecture and six laboratory hours. With permission of the Director of Graduate Studies, graduate students may take three hours of laboratory work instead of six and receive 2 s.h. credit. Prerequisites: Chemistry 70 and 151-152. 3 s.h. (w) PROFESSOR HAUSER AND ASSISTANT

**252. Advanced Organic Preparations.**—A laboratory course including experiments of a more difficult type than those required on the elementary level, accompanied by oral discussions of the techniques and theories involved, and designed to round out the student's knowledge of fundamental organic processes. Three or six laboratory hours. Prerequisites: Chemistry 70 and 151-152. 1 or 2 s.h. (w) ASSOCIATE PROFESSOR BROWN AND PROFESSOR BIGELOW

**253-254. Advanced Organic Chemistry.**—Discussion of the theories of organic chemistry with special reference in the first semester to the mechanism of reactions and in the second semester to the synthesis of some of the more complex compounds such as vitamins, hormones, and alkaloids. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Prerequisites: Chemistry 70 and 151-152. 4 s.h.

PROFESSORS BIGELOW AND HAUSER

**261-262. Physical Chemistry.**—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 51-52 or 1-2 and Mathematics 51-52 or equivalent. 6 s.h.

PROFESSORS GROSS AND SAYLOR; ASSOCIATE PROFESSOR HOBBS

**271. Introduction to Research.**—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses, and other topics. One lecture. 1 s.h.

PROFESSORS BIGELOW, GROSS, AND VOSBURGH

**275-276. Research.**—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors by permission of the Director of Undergraduate Studies. Nine hours a week and conferences. 3 or 6 s.h. (w)

PROFESSORS BIGELOW, GROSS, HAUSER, LONDON, SAYLOR, VOSBURGH; ASSOCIATE PROFESSORS BROWN, HILL, AND HOBBS; ASSISTANT PROFESSOR BRADSHAW



## DEPARTMENTAL MAJOR

A. For the degree of A.B.

*Prerequisites:* Chemistry 1-2, Mathematics 6 s.h.

*Major Requirements:* Chemistry 61, 70, 151-152, and an additional 6 or 7 s.h., which may be satisfied by 261-262 or by 206 together with 2 or 3 s.h. selected from courses 131, 233, and 251. The required work in the Science Division must include one year of Physics.

B. For the degree of B.S.

*Prerequisites:* Chemistry 1-2, Mathematics 6 s.h.

*Major Requirements:* Chemistry 61, 70, 131, 151-152, 234, 251, 261-262. The required work in the Science Division must include Mathematics 51-52 and one year of Physics.

## ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR HOOVER, CHAIRMAN; PROFESSOR DE VYVER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS BLACK, HUMPHREY, RATCHFORD, SMITH, SPENGLER, AND VON BECKERATH; ASSOCIATE PROFESSORS ALLEN, HANNA, LANDON, LEMERT, SHIELDS, AND SIMMONS; ASSISTANT PROFESSORS ASHBROOK, JOERG, MCKENZIE, MACMILLAN, AND SAVILLE; MESSRS. CLAMP, HAINES, HOLDEN, LEHMANN, ROSS, AND WILLIAMS

The Department offers instruction in general economics, business administration and accounting. The general course in economics affords a survey of the whole field of economic thought and lays the foundation for specialized study in various branches of the subject. Advanced courses are offered in theoretical and applied economics.

A special group of studies is provided for candidates for the Bachelor of Arts degree who are definitely looking forward to a business career at the conclusion of their college course. While this group is mainly composed of liberal rather than technical studies, it gives opportunity in the Junior and Senior years for specialized study in such subjects as money and banking, public and corporation finance, investments, railroad and water transportation, economic geography, marketing, insurance, industrial management, accounting, and business statistics.

## ECONOMICS

**12. American Economic Institutions.**—A survey of the main economic factors, trends, and institutions in the development of American society, including such topics as the economics of the frontier, the economic basis of regionalism, tariff policies, imperialism, capital accumulation, monopoly, modern technology and mass production, labor movements, and corporate enterprise. 3 s.h. (w)

[Not offered in 1949-50]

PROFESSOR SMITH

**51-52. Principles of Economics.**—6 s.h. (E & W)

STAFF

This course must be passed by all students planning to elect further courses in Economics and Business Administration.

One section of Economics 51 will be offered during the spring semester, and one section of Economics 52 will be offered during the fall semester.

**60. General Accounting.**—A one semester course in accounting principles designed for economics majors and other non-business administration students who desire some understanding of basic accounting concepts. This course is required of economic majors who do not take Course 57-58. It must be taken in the Sophomore or Junior year. 3 s.h. (w)

**103. Transportation.**—Essential features, problems, and competitive positions of rail, highway, air, and inland-water transportation, with most empha-

sis on rail transportation. Special attention is given to the economic significance of transportation, and to cost factors, rates and their economic effects and regulations. 3 s.h. (w) ASSOCIATE PROFESSOR LONDON

**107. Conservation.**—A study of the extent and distribution of our natural resources and their service in regional and national development. Emphasis will be placed upon both the natural and human factors involved in the genesis of current problems. Term reports dealing with problems of special interest to those participating will be considered. 3 s.h. (w)

ASSOCIATE PROFESSOR LEMERT

**132. The Economic History of the United States.**—A study of the agricultural, industrial, commercial, and financial progress of the United States from colonial times to the present day. Special attention will be devoted to mass production, business cycles, great fortunes, and the relationships between government and business. 3 s.h. (w)

PROFESSOR SMITH

**138. Business Statistics.**—A course in elementary statistics designed principally for students of economics and business administration. The material is also of interest to those specializing in engineering, forestry, political science, and sociology. The course deals with collection of statistical data, construction of statistical tables and charts, and a brief study of the fundamental statistical techniques. Offered both semesters. 3 s.h. (w)

ASSOCIATE PROFESSOR HANNA

Open to Juniors and to Sophomores in the second semester. Not open to Seniors except with the permission of the Director of Undergraduate Studies.

[Note: The attention of students who are taking, or who propose to take, courses 143, 144, or 158 is called to Mathematics 16, "Mathematics of Investment." This course is recommended as an elective for Sophomores or Juniors.]

**139. Advanced Business Statistics.**—This course is designed for students who wish more thorough preparation in statistics, either for use in business or to meet civil service requirements. Special emphasis is placed on index numbers, time series analysis, and correlation methods. Prerequisite: Economics 138 or the equivalent. 3 s.h. (w)

ASSOCIATE PROFESSOR HANNA

**152. Global Geography.**—The subject matter involves resources patterns and world affairs, geonomic problems, geocultural problems, and geographic factors affecting geopolitical questions. No prerequisite. 3 s.h. (w)

ASSOCIATE PROFESSOR LEMERT

**153. Money, Credit and Banking.**—This course begins with a study of the nature, characteristics, and functions of money, credit, and the commercial banking system. It covers also the history of commercial banking in the United States; the foundation, organization, and functions of the Federal Reserve System; the supervision and control of commercial banks; deposit insurance; and the value of money. 3 s.h. (w)

ASSOCIATE PROFESSOR SIMMONS; PROFESSOR RATCHFORD;  
ASSISTANT PROFESSORS ASHBROOK AND SAVILLE

**155. Labor Problems.**—An examination of present-day labor problems followed by an intensive study of methods used by employers and workers in meeting those problems. 3 s.h. (w)

PROFESSOR DE VYVER

**161. European Economic Problems.**—This course deals with the losses and economic dislocations of the war, the problem of developing a new pattern of intra-European and world trade, the effort to stabilize prices, expand investments and production, and the effect of economic planning and controls. 3 s.h. (w)

PROFESSOR HUMPHREY

**169. Economics of Consumption.**—Economic problems of the family. Factors determining choice; commercial and legal standards for consumers' goods; consumer credit and co-operation; income and standards of living. 3 s.h. (E)

PROFESSOR SMITH

**186. Latin-American Economics.**—Facts and factors in the economic structure and growth of the Latin-American nations; population, labor productivity, and standards of living; problems of industry, agriculture, and mining; transportation and public utilities; monetary and fiscal policies; the migration of capital and the role of the United States as a creditor nation; economic thought and institutions. 3 s.h. (w) PROFESSOR SMITH

**187. Public Finance.**—This is a general course in the principles of public finance. It covers the constitutional, economic, and administrative aspects of public revenues, public expenditures, public debts, and intergovernmental fiscal relations. Special attention is given to current trends and problems. 3 s.h. (w) PROFESSOR RATCHFORD

**189. Business and Government.**—This course deals with the economics of public policy regarding such matters as business combinations, corporate organizations, industrial price policies, marketing practices, economic planning, cartels, and similar problems of governmental regulation of business. 3 s.h. (w) PROFESSOR HUMPHREY

**199. Economic Analysis.**—This course deals with resource allocation, price determination, distribution, variations in the level of employment and national income, and major problems occasioned by economic progress. 3 s.h. (w) ASSOCIATE PROFESSOR ALLEN

**204. Monetary and Banking Theory.**—Structure and functioning of monetary and banking mechanism. Particular attention is given to the theoretical basis of monetary management. 3 s.h. (w) ASSOCIATE PROFESSOR SIMMONS

**215. Economic Systems.**—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. Particular attention is given to an analysis of the Soviet economic system. 3 s.h. (w) PROFESSOR HOOVER

**216. Economic Functions of the State.**—A consideration of the primary and secondary economic functions of government and of the legislation which provides for the performance of these functions. Prerequisite: Economics 215 or its equivalent. 3 s.h. (w) PROFESSOR HOOVER

**217. Population, Resources, and Standards of Living.**—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth-rates. 3 s.h. (w) PROFESSOR SPENGLER

**218. Business Cycles.**—A study of the various types of cyclical movements in industry, with special emphasis on cycle theory and methods of controlling or modifying business cycles. 3 s.h. (w) PROFESSOR HUMPHREY

**231. Economic History of Europe.**—The economic development of Europe from medieval times to the present, treating such topics as the guilds, mercantilism, money, banking, crises, the Industrial Revolution, the interrelationships of government and business, and the economic consequences of war. 3 s.h. (w) PROFESSOR SMITH

**233. State and Local Finance.**—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. Prerequisite: Economics 187 or consent of instructor. 3 s.h. (w) PROFESSOR RATCHFORD



**234. Federal Finance.**—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between Federal and state governments. Prerequisite: Economics 187 or consent of instructor. **3 s.h. (w)** PROFESSOR RATCHFORD

**236. Taxation and Government Finance.**—A basic course in public finance for advanced students. Primary emphasis is placed on taxation and tax policy, with consideration also of government expenditures, financial administration, intergovernmental fiscal relations, and public debts. Readings in texts, monographs, and source materials will be supplemented by lectures, class discussions and reports on special topics. Not open to students who have received credit for Economics 187 or equivalent. **3 s.h. (w)** PROFESSOR RATCHFORD

**237-238. Statistical Methods.**—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Economics 138 or consent of the instructor. **6 s.h. (w)** ASSOCIATE PROFESSOR HANNA

**241-242. Value and Distribution.**—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. **6 s.h. (w)** PROFESSOR SPENGLER

**245. Problems of Modern Industrialism.**—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organizations. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised, with special emphasis on the problems of industrial demobilization and on industrial reconstruction after the war. **3 s.h. (w)** PROFESSOR VON BECKERATH

**256. Labor Legislation.**—A study of the relations of the state to labor problems with special reference to remedial legislation and to interference in labor disputes. Prerequisite: Economics 155, or with the consent of the instructor. **3 s.h. (w)** PROFESSOR DE VYVER

**260. Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present Federal and state social security legislation. **3 s.h. (w)** PROFESSOR DE VYVER

**265. International Trade and Finance.**—A study of the fundamental principles of international trade and foreign exchange. Subjects covered will include international specialization, balance of payments, foreign investments, tariffs and commercial policies, exchange control, exchange rates, and international monetary problems. **3 s.h. (w)** ASSOCIATE PROFESSOR ALLEN

**268. Competitive versus Monopolistic Enterprise.**—This course discusses monopoly and certain forms of imperfect competition as disturbances of a free market economy as well as of an individualistic political system. It deals with the possibilities for remedial action by business and by judiciary and government agencies, and with the limitations and dangers of government intervention if a free society is to be preserved. **3 s.h. (w)** PROFESSOR VON BECKERATH

**280. Advanced Economic Problems.**—This course is designed to afford students an opportunity to integrate the economic principles which they have acquired in specialized courses, through the application of these principles to current economic problems. Not open to graduate students. 3 s.h. (w)

## BUSINESS ADMINISTRATION

### A. ACCOUNTANCY

**57-58. Principles of Accounting.**—Elementary principles of single proprietorship, partnership, and corporation accounting. Supervised laboratory periods will be assigned. 6 s.h. (w)

PROFESSOR BLACK; ASSOCIATE PROFESSOR SHIELDS; AND STAFF

**171-172. Advanced Accounting.**—Advanced accounting theory and practice applied to the managerial problems of valuation and operation in corporations, consolidations, mergers, and liquidations. Open to students who have completed Economics 57-58. 6 s.h. (w)

ASSOCIATE PROFESSOR SHIELDS

**173-174. Auditing, Theory and Practice.**—This course prepares the manager to investigate the operation of his own business, the prospective investor to determine the value of the proposition, the student to practice the public accounting profession. The first semester deals with detail and balance sheet audits and the second semester with special investigations. Problems, working papers, and reports. Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h. (w)

ASSISTANT PROFESSOR MACMILLAN

**175-176. C. P. A. Review.**—Thorough practice in classroom to prepare candidates for the Certified Public Accountant examination. The object is to train students to apply accounting principles and to work in classroom under substantially the same conditions as in the examination room. Practical accounting problems, auditing analysis, and theory of accounts. Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h. (w)

PROFESSOR BLACK

**177. Income Tax Accounting.**—A study of the accounting principles involved in the management of business enterprise under the requirements of Federal income tax laws. Practice is given in the preparation of tax returns. Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h. (w)

ASSOCIATE PROFESSOR SHIELDS

**178. Accounting Systems.**—The design and installation of accounting systems and the presentation of accounting reports to management in basic manufacturing industries, mercantile establishments, financial institutions, and municipalities. Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h. (w)

ASSOCIATE PROFESSOR SHIELDS

**180. Government Accounting.**—Accounting principles and methods used in the control and administration of governmental units. Emphasis is placed upon state, county, and municipal governments. Prerequisite: Economics 57-58 and permission of the instructor. 3 s.h. (w)

ASSOCIATE PROFESSOR SHIELDS

**275-276. Advanced Industrial Accounting and Management.**—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h. (w)

PROFESSOR BLACK

### B. COMMERCE AND INDUSTRY

**11. Economic Geography.**—A course in regional economic geography embracing the study of the world's major geographic regions, their present and potential production of food and raw materials for manufacture, and the re-



relationships between these factors and the development of manufacturing industries, cities, and commerce. Offered both semesters. 3 s.h. (E & W)

ASSOCIATE PROFESSOR LEMERT

**105. Industrial Management.**—A study of the organization and management of industrial production, with emphasis upon the principles governing location and plant design, the planning and control of materials and methods, and general price policies. Offered both semesters. 3 s.h. (W)

ASSOCIATE PROFESSOR LONDON

**109. The Economic Geography of Latin America.**—This course involves comprehensive study of the resources and people of Mexico, the West Indies, and Central and South America. Special emphasis is placed upon the possibilities and limitations of increases in trade between the United States and the leading Latin-American countries. 3 s.h. (W) ASSOCIATE PROFESSOR LEMERT

**115. Fundamentals of Geography.**—A study of geographic influences consisting of location, maps and their interpretation, climate topography, soils, minerals, bodies of water, plants, animals, and the works of man. This course is required of all students in Teaching Group, Class B, and is also recommended for those intending to specialize in foreign trade or the diplomatic service. 3 s.h. (E)

ASSOCIATE PROFESSOR LEMERT

**116. Principles of Economic Geography.**—A study of the economic resources of the world; the products of the agricultural and manufacturing industries: trade routes and trade centers; and influence of geographic factors on the economic development of nations. This course is required of all students in Teaching Group, Class B, and is also recommended for those intending to specialize in foreign trade or the diplomatic service. Prerequisite: Economics 115. 3 s.h. (E)

ASSOCIATE PROFESSOR LEMERT

**118. Economic Geography of the South.**—A study of the agricultural, commercial, and industrial development, with special emphasis upon the expansion of Piedmont industries. 3 s.h. (W)

ASSOCIATE PROFESSOR LEMERT

**120. Economic Geography of the Pacific.**—The physical influences, natural resources, and economic activities of Asia, Oceania, and portions of the western coasts of North and South America with special emphasis upon their relationship to present developments. 3 s.h. (W)

ASSOCIATE PROFESSOR LEMERT

**143. Corporation Finance.**—Principles and problems in the financial organization of corporations; the study of corporate securities, the management of capital, the distribution of earnings; industrial combinations; insolvency and reorganization. Offered both semesters. 3 s.h. (W)

ASSISTANT PROFESSOR JOERG

Though not a prerequisite, Economics 57-57, Principles of Accounting, or Economics 60, General Accounting, are recommended to students electing this course.

**144. Investments.**—A study of the investment policies of individuals and institutions; the securities markets; sources of investment information and data; the analysis and interpretation of financial statements. Prerequisites: Economics 57-58 or 60, and 143. 3 s.h. (W)

ASSISTANT PROFESSOR JOERG

**158. Insurance.**—The development and basic principles of insurance. This course covers such topics as business uses, policy contracts, costs, and regulation of insurance. Life and fire insurance are emphasized. Offered both semesters. 3 s.h. (W)

ASSISTANT PROFESSOR SAVILLE

**168. Marketing.**—The topics covered in this course include the economic importance of markets and the marketing system; marketing functions, organization, and methods, price policies; finance; speculation; market research and the planning of marketing activities; co-operative marketing; criticism of marketing and means for improvement; and regulation. 3 s.h. (W)

ASSOCIATE PROFESSOR LONDON

**181-182. Business Law.**—The fundamental principles of law as applied to common business transactions. The topics presented are: contracts, agency, bailments, sales, negotiable instruments, partnerships, corporations, and bankruptcy. *For Seniors.* 6 s.h. (w) MR. HAINES

**184. Commercial Law for Accountants.**—A review and summation of commercial law principles as they apply to accounting theory and practice. Emphasis will be placed upon the commercial law sections of the Certified Public Accountant examinations. Students are admitted to the course by permission of the instructor. *For Seniors.* 3 s.h. (w) PROFESSOR BLACK

**188. Personnel Management.**—A study of the fundamental principles and problems of labor management and of collective bargaining under modern industrial conditions and under existing labor legislation. Prerequisite: Economics 155. 3 s.h. (w) PROFESSOR DE VYVER

#### DEPARTMENTAL MAJOR

A major in economics requires the following election of courses:

##### A

Economics 51-52. Principles of Economics.  
Economics 60, or 57-58. Principles of Accounting.  
Economics 138. Business Statistics.  
Economics 153. Money, Credit and Banking.  
Mathematics 5.

##### B

Eighteen (18) semester hours in junior and senior courses in economics, of which six (6) semester hours are restricted to the following group of courses:

Economics 199. Economic Analysis.  
Economics 204. Monetary and Banking Theory.  
Economics 215. Economic Systems.  
Economics 217. Population Problems.  
Economics 218. Business Cycles.  
Economics 231. Economic History of Europe.  
Economics 234. Federal Finance.  
Economics 245. Modern Industrialism.  
Economics 256. Labor Legislation.  
Economics 265. International Trade.

Students majoring in Economics are restricted by the general Faculty Regulation which limits course work in Economics and Business Administration to 54 semester hours with not over 36 semester hours in either of the department's subdivisions "economics" and "business administration."

#### EDUCATION

PROFESSOR BROWNELL, CHAIRMAN; PROFESSOR CARR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CHILDS AND PROCTOR; ASSOCIATE PROFESSORS BOLMEIER, NAHM, RUDISILL, STUMPF; MR. SLAY; AND ASSISTANTS

Courses in the Department of Education are designed for two groups of students: (1) students with teaching experience or others who have definitely chosen teaching as their life-work, and (2) students who desire to study the school as an outstanding social institution. The courses listed in Nursing Education are for students preparing to teach in schools of nursing.

Students who do not expect to teach but merely desire an understanding of the school as part of a liberal education are advised to elect such courses as 54, 84, 88, and 105 for their introductory work in the Department and then to elect further work in accordance with their special interests. Students who expect to teach in the public schools should plan their courses in accordance with the general regulations set forth under "Teaching" on page 58 of this catalogue. All prospective teachers must enroll in courses 84 and 88, preferably before their Junior year, and are then required to complete courses 103 and 118 before taking either 101-102 or 115-116 in their Senior year.

**1. Orientation Course in Study and Study Habits.**—A course for Freshmen whose high-school and other records indicate the need of help in working out a satisfactory method of study. The factors of study, the use of textbooks, note-taking from lectures and parallel readings, and applications of the factors of study to the daily problems of the student are among the matters considered. *Either semester. 3 s.h. (w & e)* STAFF

**6. A Study of Reading Skills.**—This is a non-credit course in the psychology of reading. It is a study of individual and group problems of reading, intended to aid those who need to read more rapidly and to develop habits of reading for specific purposes. Diagnosis of reading difficulties and remedial procedure emphasized. Enrollment limited to twenty-five students. Admission by consent of instructor. *Either semester. 3 s.h. (e)*

ASSOCIATE PROFESSOR RUDISILL

**54. Introductory Course in History of Education.**—A study of the types of educational systems and institutions evolved in Western Europe and the United States as an introduction to current educational problems. *3 s.h. (e)*  
[Not offered in 1949-50]

**68. Mental Hygiene of the School Child.**—A study of personality factors as related to the adjustment and success of the school child; the foundations of motivation; typical problems of maladjustment; social heredity and its educational implications; variations in intelligence. Not open to students who have had Psychology 116. *3 s.h. (e)*  
[Not offered in 1949-50] ASSOCIATE PROFESSOR EASLEY

**84. Social Foundations of Education.**—This course is the first of four intended to give the student a thorough survey of the place and function of education and an understanding of the school as a social institution. It is an introductory course emphasizing those historical, philosophical, and sociological factors which explain trends in American education. *Either semester. 3 s.h. (w & e)*  
ASSOCIATE PROFESSOR STUMPF AND MR. SLAY

**Note:** Courses 84, 88, 103, and 118 constitute a sequence of 12 hours in Education required of all prospective teachers. Students who intend to teach in the elementary school should confer with Professor Carr, and students who intend to teach in the secondary school should confer with Professor Childs, in order to work this sequence into their schedules. See courses under Nursing Education for modified sequence of courses for students preparing to teach in schools of nursing.

**88. Educational Psychology: Learning and Measurement.**—This course and Education 118 constitute a general introduction to the field of Educational Psychology. This course deals with (1) the psychology of learning, including: the nature of the learning process; general principles or laws of learning; the course of learning and forgetting; factors influencing efficiency in learning and retention; and the transfer of training; and (2) measurement, including: the basic concepts in the measurement of intelligence; standardized achievement tests; the extent and significance of individual differences in ability and performance. Opportunity will be afforded for examination and study of a variety of tests of intelligence and achievement. *Either semester. 3 s.h. (e & w)*  
ASSOCIATE PROFESSOR EASLEY

See note following course 84.



**101-102. Elementary Education: Principles and Practice.**—The study of the nature, subject matter, and methods of elementary education. The course is designed to give prospective elementary teachers an understanding of basic principles and practices in the organization of instruction and of subject matter for the primary and grammar grades of the public school. Students may elect primary or grammar-grade work, according to their special interests. A minimum of ninety clock hours of observation and supervised practice teaching is required. The specific problems which arise in the student teachers' experiences are treated in group and individual conferences. *For Seniors only.* 8 s.h. (E) PROFESSOR CARR AND ASSISTANTS

**A. Integrated Art in the Public School.**—This course consists of three semester hours of work in materials and methods. (Required of all students intending to teach in the elementary school.) *For Juniors and Seniors.* (E) [Not offered unless as many as eight students enroll.] MRS. MASON

**B. Industrial Art in the Public School.**—This course consists of three semester hours of work in materials and methods. (Required of all students intending to teach in the elementary school.) *For Juniors and Seniors.* (E) [Not offered in 1949-50] MRS. MASON

**103. Organization and Management of the School.**—An introduction to the problems of school organization and administration which are of particular concern to the classroom teacher. Although federal and state control over education is briefly reviewed, the main consideration is the local school system. Considerable attention is given to the administration of teaching personnel, pupil personnel, and the program of studies. *Either semester.* 3 s.h. (E & W) ASSOCIATE PROFESSOR BOLMEIER

See note following course 84.

**105. Introduction to Educational Sociology.**—A study of the social forces, processes, and values affecting education, and the interaction of school and community. 3 s.h. (E) PROFESSOR CHILDS

**115-116. Secondary Education: Principles and Practice.**—A study of the nature, scope, and methods of secondary education, emphasizing fundamentals of the teaching process and exemplifying theory by practice. A minimum of ninety clock hours of observation and supervised practice teaching is required. Students preparing to teach in the junior high school are permitted to concentrate in that field. *Since practice-teaching facilities are limited, students with superior records will be given preference in the practice teaching.* *For Seniors only.* 8 s.h. (E) PROFESSOR CHILDS AND ASSISTANTS

**118. Educational Psychology: Psychological Development.**—This course traces the psychological development of the individual from infancy to maturity. The principal topics considered are: the interdependence of hereditary and environmental factors in development, the nature of the developmental process, the establishment of the early basic patterns of behavior, changes and conditions producing these changes throughout childhood and adolescence to maturity, and the origin and treatment of minor behavior disorders. To the degree practicable, students will observe children in typical and atypical situations as a means of securing concrete data on the problems treated in the course. Not open to students who have had Psychology 121 or 126. Prerequisite: three semester hours in psychology or educational psychology. *Either semester.* 3 s.h. (E & W) PROFESSOR BROWNELL

See note following course 84.

**128. Tests and Measurements in Personnel Work.**—A critical study of the principles and techniques of measurement in industrial, social, and educational personnel work. The course attempts to serve three purposes: (1) to acquaint the students, as a matter of cultural interest, with the rapidly expanding

field of personnel study; (2) to provide a basis of technical training to enable the student to develop himself professionally after he enters personnel work; and (3) to provide a basis for personnel vocational orientation. 3 s.h. (w)  
[Not offered in 1949-50]

**132. Materials and Methods in Health Education.**—Identical with Health Education 132. 3 s.h. (w) ASSOCIATE PROFESSOR AYCOCK

**136. The Teaching of High-School English.**—Identical with English 142. *For Seniors only.* 3 s.h. (E) ASSISTANT PROFESSOR JORDAN

**142. Children's Literature.**—Students enrolled will be allowed to specialize in literature of either the primary or the grammar grades. *First semester.* 3 s.h. (E) PROFESSOR CARR

**166. Materials and Methods in Teaching Romance Languages.**—Identical with Romance Languages 118. 3 s.h. (E) ASSOCIATE PROFESSOR DAVIS

**170. The Social and Economic Position of Women.**—A course in vocational guidance for women counting as a general elective, but not as part of either a major or minor in Education or toward a North Carolina State teacher's certificate. The purpose of the course is to give the historical background of the changing social and economic position of women, the contributions made by outstanding women, and the vocational opportunities open to women. 2 s.h. (E) MRS. SMITH

[Not offered in 1949-50]

**176. Materials and Methods in High-School Science.**—Discussion based upon lectures and collateral reading of such topics as aims, tests for values, the curriculum, classroom procedure, course and lesson planning in secondary school science. Prerequisite: at least eighteen hours of science in college. *For Seniors only.* 3 s.h. (E) PROFESSOR KRAMER

**185. The Teaching of Religion and Ethics.**—Identical with Religion 193; counts as elective in Education only for those students preparing to teach religion in secondary schools. 3 s.h. (w) ASSOCIATE PROFESSOR CRUM

**200. Introduction to the Philosophy of Education.**—3 s.h. (E)  
[Not offered in 1949-50]

**203. Principles of School Administration.**—Prerequisite: six semester hours of courses 103 and 88 or their equivalent. 3 s.h. (E) ASSOCIATE PROFESSOR BOLMEIER

**205. Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. 3 s.h. (E) PROFESSOR CHILDS

**206. Sociological Foundations of the Secondary School Subjects.**—A consideration of the aims and objectives of secondary school subjects, emphasizing problems of curriculum-making. Prerequisite: general sociology or approved work in education, including course 105. 3 s.h. (w) PROFESSOR CHILDS  
[Not offered in 1949-50]

**207. Technique of Teaching.**—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. 3 s.h. (E) PROFESSOR CARR  
[Not offered in 1949-50]

**208A. Mental Tests and Applications.**—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests and training in the giving of individual tests. Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. *First semester.* 3 s.h. (E) ASSOCIATE PROFESSOR EASLEY



**208B. Mental Tests and Applications.**—A continuation of course 208A intended to provide experience in the administration of mental tests and in the interpretation of data. Open only to students approved by the instructor. *Second semester.* 2 s.h. (E) ASSOCIATE PROFESSOR EASLEY

**209. Statistical Methods Applied to Education.**—A study of statistical methods of treating educational and social data designed to enable teacher or administrator to interpret and use the results of scientific investigations in education. 3 s.h. (E) ASSOCIATE PROFESSOR STUMPF

**212. Psychology of the Elementary School Subjects.**—A study of the psychology of learning as applied to teaching the common school subjects. 3 s.h. (E) PROFESSOR CARR

[Not offered in 1949-50]

**213. Problems in the Organization and Administration of the Elementary School.**—A study of the work of the elementary school principal. *Second semester.* 3 s.h. PROFESSOR PROCTOR

**214. History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. 3 s.h. (w)

[Not offered in 1949-50]

**215. Educational and Vocational Guidance.**—A survey of the literature on guidance with special reference to secondary education; a critical study of the principles and techniques used in guidance; an attempt to locate the problems most urgently in need of solution. Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h. (E)

[Not offered in 1949-50]

PROFESSOR CHILDS

**216. Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. 3 s.h. (w)

PROFESSOR CHILDS

[Not offered in 1949-50]

**222. The Curriculum and Materials of the Elementary Grades.**—A study of curriculum problems in the elementary schools. 3 s.h. (E) PROFESSOR CARR

**225. The Teaching of History and the Social Studies.**—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (w)

ASSOCIATE PROFESSOR MANCHESTER

**227. The Psychology of Learning: Problems.**—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. *Second semester.* 3 s.h. (E)

ASSOCIATE PROFESSOR EASLEY

**228. The Psychology of Learning: Theoretical and Experimental.**—This is a continuation of course 227. In this semester the laws of learning, the most important explanatory principles, and the major systems of the psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. *First semester.* 3 s.h. (E)

ASSOCIATE PROFESSOR EASLEY

**232. Supervision of Instruction.**—A survey of supervision as a means of improving instruction and adapting the curriculum to the learner and to community needs. 3 s.h. (E) PROFESSOR CARR

**233. Administrative Pupil-Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual

differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. 3 s.h. (E)

[Not offered in 1949-50]

PROFESSOR PROCTOR

**234. Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. 3 s.h. (E)

ASSOCIATE PROFESSOR BOLMEIER

**237. Investigations in Reading.**—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing, diagnosis, and supervision; emphasis on problems requiring further investigation. *Second semester.* 3 s.h. (E)

ASSOCIATE PROFESSOR RUDISILL

**244. Studies in the Historical Development of Public School Administration.**—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h. (w)

[Not offered in 1949-50]

**246. The Teaching of Mathematics.**—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (E)

PROFESSOR RANKIN

[Not offered unless enrollment justifies.]

**247. Investigations in Arithmetic.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *Second semester.* 3 s.h. (E)

PROFESSOR BROWNELL

**253. Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. 3 s.h. (w)

[Not offered in 1949-50]

**254. History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and federal aid. 3 s.h. (E)

PROFESSOR PROCTOR

[Not offered in 1949-50]

**258. Educational Measurements.**—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h. (E)

[Not offered in 1949-50]

**264. Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. 3 s.h. (w)

[Not offered in 1949-50]

#### NURSING EDUCATION

(Students preparing for administrative, teaching, or supervisory positions in schools of nursing must take, in addition to other courses, substantially the same basic program of work in Education as do prospective secondary school teachers, namely, courses 84, 88, 115-116, and 118. (Course 101 below is substituted for course 103 in this program.) Courses 84N and 115-116N are sections of courses 84 and 115-116, respectively, designed especially for nurses.)

**84N. Social Foundations of Nursing Education.**—A special section of Education 84, applied to Nursing Education. A survey of major historical, philosophical, and sociological factors which have affected developments in nursing and nursing education. The purpose of the course is to give the student a better understanding of the place of nursing in present day society and the responsibilities of the individual nurse toward that society. 3 s.h. (E)

PROFESSOR NAHM

**101. The Curriculum in the School of Nursing.**—The general principles of curriculum making and the factors which determine the content and organization of the nursing school curriculum are considered in this course. 3 s.h. (E)

PROFESSOR NAHM

**115N-116N. Nursing Education: Principles and Practice.**—A special section of Education 115-116. Principles of teaching applied to the nursing school situation and the planning and evaluation of instruction. Ninety hours of observation and of supervised teaching in the Duke University School of Nursing are required. Four hours of conference, observation, and practice teaching are required each week. Before beginning practice teaching students must complete thirty hours of observation. (Not open for enrollment to students who have had courses 115-116.) 8 s.h. (E)

PROFESSOR NAHM

**117. Nursing Education: Community Nursing Service.**—Seminary and field trips to community agencies. The purpose of this course is to help prospective teachers in schools of nursing to integrate social and health aspects of their respective curriculum areas. 2 s.h. (E)

PROFESSOR NAHM

**120. Nursing Education: Problems in Nursing Care.**—Each student works on an individual problem designed to improve the nursing care of patients. 3 s.h. (E)

PROFESSOR NAHM

[Not offered in 1949-50]

**124. Nursing Education: Teaching of the Nursing Arts.**—In this course an effort is made to help prospective teachers to integrate the factors and principles of the natural, social, and medical sciences into the teaching of nursing arts. Though major emphasis is placed upon problems which are involved in teaching the first course, the concept of the nursing arts as an integral part of each clinical area is stressed. 3 s.h. (E)

PROFESSOR NAHM

[Not offered in 1949-50]

**193. Ward Administration and Teaching.**—This course is designed to help head nurses better to understand their functions in planning and managing a program on a hospital division which will result in improved care of patients, greater satisfaction for professional and non-professional personnel, and a more adequate teaching program for students and others. 3 s.h.

PROFESSOR NAHM

**195. Personnel Work in Schools of Nursing.**—The primary purpose of this course is to help head nurses and supervisors to develop greater understanding of the principles of human behavior, and greater ability to apply those principles in working with patients and others on hospital divisions, and in establishing cooperative relationships with other departments of the hospital. 3 s.h.

PROFESSOR NAHM

#### DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester hours of courses limited to Seniors or to Seniors and Graduates. Before graduation, majors in the Department must have credit for at least one course in educational psychology, and one course in history and philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, provided at least six semester hours of



the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester hours may be of courses numbered below 100.

#### DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in education who have passed with grade of "B" or better in their Freshman or Sophomore years six semester hours of education.

Candidates for Honors in education are required to take in the Junior year twelve semester hours in the Department and to make an average of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of twelve semester hours of supervised reading in education, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in education offered in the 200 group, on which he is required to make a grade of "B" or better and twelve semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the History of Education; the remaining six semester hours shall be devoted to Educational Psychology, or Secondary Education, or Elementary Education, or Public School Administration, as the student may elect and the Departmental Committee approve. In exceptional cases, qualified students may be permitted to take six semester hours of the supervised reading during the Junior year and increase the amount of course work in the Department the Senior year.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

#### ENGINEERING

See page 145 of this bulletin.

#### ENGLISH

PROFESSOR IRVING, ACTING CHAIRMAN; ASSOCIATE PROFESSOR BEVINGTON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR BOWMAN, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BRINKLEY, GILBERT, GOHDES, AND HUBBELL; VISITING PROFESSORS FOERSTER AND ORSINI; ASSOCIATE PROFESSORS BLACKBURN, LEARY, MITCHELL, PATTON, SANDERS, TALBERT, AND WARD; ASSISTANT PROFESSORS BEVINGTON, HARWELL, JORDAN, KLIGER, POTEAT, REARDON, SCHWERTMAN, SUGDEN, WETHERBY, AND WHITE; DRs. CHURCH AND ROBBINS; MESSRS. BENNETT, BROUSE, CANINE, FRENCH, GINTHER, GUILDS, KEIRCE, KENNEDY, AND REECE; MRS. BRAVERMAN, MRS. EMMA, MRS. GRATTAN, AND MISS LOWE

**L. English Fundamentals.**—All Freshmen whose scores on the placement tests indicate that they are not ready for English 1 must take this course. Students who fail in English L must repeat the course. Students who have earned credit in English L must also take English 1 and 2. 3 s.h. (w)

ASSISTANT PROFESSOR JORDAN; MESSRS. FRENCH AND CANINE

**1-2. English Composition.**—All Freshmen are required to take course 1 and course 2. (For exemptions, see Minimum Requirements, p. 55.)

Students who fail in English 1 or 2 must repeat the course in the following semester. Students in courses 1 and 2 who fail to make an average of "C" or better are strongly advised to earn credit for an additional course in English composition. **6 s.h. (E & W)**

ASSOCIATE PROFESSORS BEVINGTON, BLACKBURN, BOWMAN, PATTON, SANDERS, AND WARD; ASSISTANT PROFESSORS BEVINGTON, HARWELL, JORDAN, KLIGER, POTEAT, SUGDEN, AND WHITE; DRs. CHURCH AND ROBBINS; MESSRS. BENNETT, BROUSE, CANINE, FRENCH, GINTHER, GUILDS, KEIRCE, KENNEDY, AND REECE; MRS. BRAVERMAN, MRS. EMMA, AND MISS LOWE

**33. Writing Laboratory.**—A non-credit course in elementary composition which may be elected by students who feel the need of additional elementary composition, or may be required of certain students under the conditions stated on page 163, "Deficiencies in Composition." This course may be entered or completed at any time, at the instructor's discretion. **(W)**

ASSISTANT PROFESSOR JORDAN

**53. English Composition.**—A course in advanced composition and grammar. Emphasis is placed first on the student's mastering the fundamental principles of English grammar and the other essentials of correct writing. Weekly themes are required. **3 s.h. (W)**

ASSISTANT PROFESSOR JORDAN

**58. English Composition.**—A course in creative writing with emphasis on precision in the use of English. No textbook is used. Daily written assignments are discussed in class and are so planned as to develop the student's interest in correct English and forceful expression. **3 s.h. (W)**

ASSISTANT PROFESSOR JORDAN

**65-66. English Composition.**—A foundation course in imaginative writing, both prose and verse. Open to Sophomores and in special cases to Freshmen. The consent of the instructor is required. **6 s.h. (W)**

ASSOCIATE PROFESSOR SANDERS

**101-102. Expository English Composition.**—The course attempts to encourage fluency and accuracy in expository expression. Primarily for Juniors and Seniors; open also to Sophomores approved by the instructor. **6 s.h. (E & W)**

ASSOCIATE PROFESSOR MITCHELL

**103-104. English Composition.**—A course in descriptive and narrative writing. Class discussion of students' manuscripts, supplemented by a critical evaluation of a few selected short stories and by individual conferences with the instructor. Open to Sophomores, Juniors, and Seniors. The consent of the instructor is required. **6 s.h. (E)**

ASSOCIATE PROFESSOR BLACKBURN

**107-108. Journalism.**—The first semester is devoted to news-writing and copy-reading; the second semester to the writing of feature articles and editorials. **6 s.h. (W)**

ASSISTANT PROFESSOR SUGDEN

**E113. Advanced Composition for Engineers.**—Designed for achieving effectiveness in written reports, descriptions, technical investigations, etc. Open to Sophomores and Juniors. **3 s.h. (W)**

ASSISTANT PROFESSOR HARWELL AND MR. KENNEDY

**133. Verse-Writing.**—The writing and criticism of original verse. Limited to not more than eight students, who must apply in writing to the instructor and submit original verse. Open to Seniors, Juniors, and exceptional Sophomores and Freshmen. Once a week throughout the year. **3 s.h. (E)**  
[Not offered in 1949-50]

#### SPEECH AND DRAMA

**105-106. Playwriting.**—In the first semester a study and analysis of the technique of the one-act play. Dramatic writing by the students is discussed in class. The second semester is an intensive period of writing and discussion,



with emphasis on the development of individual style. Open to Sophomores approved by the instructor. 6 s.h. (w) ASSISTANT PROFESSOR REARDON

[105 only will be offered in 1949-50, in the second semester.]

**118. Persuasive Speaking.**—The psychological and sociological techniques used in gaining acceptance of ideas through speech. Study is made of the factors influencing human behavior; audience analysis and motivation; choice, arrangement and adaptation of material. Extensive practice in persuasive speaking. Prerequisite: English 151 or consent of the instructor. 3 s.h. (w) ASSISTANT PROFESSOR WETHERBY

**119. History of the Theatre.**—The origin and development of drama, acting, and stagecraft from ancient Greece to the modern European and American theatre. Production problems of representative plays of the various periods will be discussed. Open to Sophomores approved by the instructor. 3 s.h. first semester only. (w) ASSISTANT PROFESSOR REARDON

**121-122. Play Production.**—An introduction to the methods of producing a play. The first semester covers theatre organization, play selection, casting, and rehearsal. The second semester covers scene design and execution, lighting, make-up, and costume. There will be laboratory work in both semesters. Open to Sophomores approved by the Dean. 6 s.h. (w) ASSISTANT PROFESSOR REARDON

**139. The Speaking Voice.**—The requisites of a good speaking voice. Drill in pronunciation, diction, articulation, vocal flexibility and projection. Correction of minor speech difficulties. 3 s.h. (w) ASSISTANT PROFESSORS SCHWERMANN AND WETHERBY

**150. Oral Interpretation of Literature.**—A study of the methods by which the creative literary artist attains the aesthetic objectives of unity, harmony, balance, proportion, variety, contrast, and rhythm; with practice in the technique by which these effects can be communicated to an audience. 3 s.h. (w) ASSISTANT PROFESSORS SCHWERMANN AND WETHERBY

**151. Essentials of Public Speaking.**—A basic course in public speaking, designed to give the student the poise and confidence necessary to think and speak freely before an audience. Particular attention is paid to the gathering and organization of speech materials and to oral presentation. 3 s.h. (E & W) ASSISTANT PROFESSORS SCHWERMANN AND WETHERBY, AND MRS. GRATTAN

**152. Argumentation.**—The principles of argumentation and debating. The techniques of analysis, investigation, evidence, reasoning, brief making and refutation. Participation in class discussions and debates. Prerequisite: English 151 or consent of the instructor. 3 s.h. (w) ASSISTANT PROFESSOR WETHERBY

#### ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

**55-56. Representative Writers.**—The following works are studied in the first semester: Chaucer's Prologue to *The Canterbury Tales* and at least two tales, Malory's *Morte Darthur*, Shakespeare's *I Henry IV* and *King Lear* and two other plays, Milton's *Paradise Lost* (abridged) and some of the shorter poems, Pepys's *Diary*; in the second semester: Swift's *Gulliver's Travels*, Fielding's *Tom Jones*, Boswell's *Life of Johnson*, Keats's *Poems and Letters*, Arnold's *Essays* (selected), Thackeray's *Vanity Fair*, Shaw's *Saint Joan* and *Major Barbara*. Lectures, recitations, short papers, and frequent tests. 6 s.h. (E & W)

ASSOCIATE PROFESSORS BEVINGTON, BLACKBURN, BOWMAN, PATTON, SANDERS, AND WARD; ASSISTANT PROFESSORS BEVINGTON, KLIGER, POTEAT, AND SUGDEN; DRs. CHURCH AND ROBBINS; AND MR. FRENCH

**63-64. Introduction to English Poetry.**—In the first semester Chaucer, Shakespeare, and Milton are studied; in the second, Pope, the Popular Ballads, the Romantic poets, and Tennyson and Browning. 6 s.h. (E)

ASSOCIATE PROFESSOR MITCHELL

**111-112. Eighteenth-Century Literature.**—A study of the leading English poets, essayists, dramatists, and novelists from Swift to Blake, with the literary and social background. The major writers studied in the first term are Pope, Swift, Fielding, and Thomson; in the second term, Johnson, Goldsmith, Cowper, and Blake. Tests, discussions, and reports on outside reading. 6 s.h. (w)

ASSISTANT PROFESSOR KLIGER

**115-116. Italian Writers in English Translation.**—A survey, in translation, of the masterpieces of Italian literature from the fifteenth to the nineteenth century, including Dante, Petrarch, Boccaccio, Machiavelli, Ariosto, Tasso, Manzoni, Leopardi, Carducci, and others. Open to Juniors and Seniors and to Sophomores with the instructor's permission. 6 s.h. (w)

[Not offered in 1949-50]

VISITING PROFESSOR ORSINI

**117. Milton.**—Milton's poetry and prose, together with their relation to the period and to other great works of literature. Discussion and lectures. Occasional quizzes, one or two papers. 3 s.h. (E)

PROFESSOR BRINKLEY

**123-124. Shakespeare.**—In the first semester plays before *ca.* 1600 are studied, with emphasis in class on five dramas (e.g., *Richard III*, *Romeo and Juliet*, *I Henry IV*, *As You Like It*, *Twelfth Night*); in the second semester plays after *ca.* 1600, with emphasis in class on *Hamlet*, *Othello*, *Lear*, and *Macbeth*. Lectures, recitations, and frequent short tests. 6 s.h. (E & w)

ASSOCIATE PROFESSORS TALBERT, WARD, AND BOWMAN

**125-126. English Literature, 1789-1832.**—The course begins with selections from the poetry of the forerunners of Romanticism. The chief emphasis in the first semester is on the work of the older Romantics: Wordsworth, Coleridge, Southey, Scott, and Lamb. In the second semester the chief emphasis is on the work of the younger Romantics: Byron, Shelley, Keats, Leigh Hunt, Hazlitt, and DeQuincey. Informal lectures and class discussion of assigned texts. A limited amount of outside reading is required, and also some memory work. There are about four tests each semester. 6 s.h. (E & w)

ASSOCIATE PROFESSOR PATTON AND ASSISTANT PROFESSOR WHITE

**129-130. English Novel.**—The work of the first semester covers the history of the novel through Scott; that of the second semester, from Dickens through Hardy. Lectures and book reports. 6 s.h. (E)

ASSOCIATE PROFESSOR MITCHELL

**131-132. English Literature, 1832-1900.**—A study of the chief English writers of poetry, prose, and drama from Carlyle to Yeats. The major writers studied in the first semester are Carlyle, Tennyson, Browning, Macaulay, Mill, Newman, and Arnold; in the second semester, Ruskin, the Rossettis, Morris, Swinburne, Shaw, and Yeats, with selections from minor writers. Collateral reading from novels of the period. Lectures, discussions, tests, and a term paper. 6 s.h. (E & w)

ASSOCIATE PROFESSORS BEVINGTON AND SANDERS

**134. Contemporary Poetry.**—A reading course in the poetry of the twentieth century in England, Ireland, and America, beginning with Gerard Manley Hopkins and William Butler Yeats. An anthology of modern poetry is read and discussed, supplemented by the wider reading of individual poets. Informal lectures and discussion with a critical paper for the term. Open to Juniors and Seniors, and occasionally to Sophomores by special permission. 3 s.h. (E)

[Not offered in 1949-50]

ASSISTANT PROFESSOR BEVINGTON

**135-136. Major Works of the Victorian Period.**—Intensive study of important works not considered in detail in English 131-132, including such works as Mill's *Autobiography* and *Liberty*, Carlyle's *Past and Present* and *Heroes and Hero Worship*, Tennyson's *Idylls of the King*, Browning's *The Ring and the Book*, Macaulay's *Literary Essays*, Arnold's *Culture and Anarchy* and *Essays in Criticism*, Morris' *Earthly Paradise* and *News from Nowhere*, Ruskin's *Unto This Last*, Butler's *Erewhon*, and Hardy's *The Dynasts*. Lectures, discussions, tests, reports, and one term paper during the year. **6 s.h. (E)**

[Not offered in 1949-50] ASSOCIATE PROFESSORS SANDERS AND BEVINGTON

**137-138. American Literature.**—A survey of American literature from Colonial times to the present. Selections from the works of important authors are read, from Cotton Mather to Eugene O'Neill, and whole novels by Hawthorne, Melville, James, Howells, and others. The work of the first semester ends with the Civil War period. Lectures, monthly tests, and a term paper each semester. **6 s.h. (E & W)**

PROFESSORS HUBBELL AND GOHDES, ASSOCIATE PROFESSOR LEARY, AND DR. ROBBINS

**142. Materials and Methods of Teaching High-School English.**—This course is planned to meet the requirements of the several state departments of education and the regional educational governing bodies, and serves as part of the student's general work in practice teaching. It is required in each of the states certifying college graduates who wish to teach high-school English. **3 s.h. (E)**

ASSISTANT PROFESSOR JORDAN

**143-144. English Literature: Elizabethan and Seventeenth Century.**—In the first semester: several Elizabethan plays, with emphasis on Marlowe; selections from the prose writers; selections from the poets, with emphasis on Spenser and Shakespeare. In the second semester: several Jacobean plays; selections from the prose writers, such as Bacon, Browne, and Milton; selections from the poetry of Jonson and Donne and their followers; Milton's early poems, *Paradise Lost*, and *Samson Agonistes*. Lectures, tests, and a term paper each semester. **6 s.h. (E)**

ASSOCIATE PROFESSOR BLACKBURN

**153-154. Comparative Literature.**—Important works in European literature are read in translation and related to similar documents in English literature. In the first semester are read: nine Greek tragedies, five of Plato's *Dialogues*, Vergil's *Aeneid*, and Dante's *Divine Comedy*; in the second semester, Machiavelli, Cervantes, Molière, Voltaire's *Candide*, Goethe's *Faust*, Dostoevski's *The Brothers Karamazov*, Ibsen's plays. **6 s.h. (W)**

PROFESSOR IRVING

**155-156. Contemporary Drama.**—A study of modern representative American and British drama, with special emphasis on origins, types, and styles. A few Continental plays, and some current plays are included. There are four or five tests each semester. Open to Juniors and Seniors, and to Sophomores recommended by the Dean. **6 s.h. (E)**

ASSISTANT PROFESSOR WHITE

**157-158. Contemporary Fiction.**—Wide reading in contemporary novelists, in the first semester from Thomas Hardy to James Joyce, in the second semester from Theodore Dreiser to Thomas Mann, with attention given to influences of European literary and social thought on fiction in English. Frequent written and oral reports. Open to Sophomores with the consent of the instructor. **6 s.h. (W)**

ASSOCIATE PROFESSOR LEARY

**161-162. Modern English and Its Backgrounds.**—An elementary descriptive and historical study of the English language: its sounds, its words (forms and meanings), and its syntax. Some attention is given to the methods of linguistic inquiry and to the relations of philology and literary studies. The first semester is devoted chiefly to a description of modern English, the second to an historical survey of the earlier periods. Lectures, discussions, and short reports.

[Not offered in 1949-50]



**165-166. The Short Story in America.**—Specimens of the work of the leading short-story writers from Irving to Saroyan and Hemingway are studied. During the first semester there are also assigned readings in the short narratives of Europe from the time of Petronius to that of Balzac. The lectures begin with a survey of the antecedents of the modern short story and then concentrate on the development of the form in the United States. Monthly tests. **6 s.h. (w)** PROFESSOR HUBBELL AND ASSOCIATE PROFESSOR LEARY

**167-168. English Prose, 1790-1830.**—Selections from Burke, Godwin, Paine, Coleridge, Hazlitt, Lamb, Jane Austen, Scott, DeQuincey, and others. Special attention is given to the influence of the French Revolution and of French thought. Test and a term paper each semester. **6 s.h. (w)**  
[Not offered in 1949-50] ASSOCIATE PROFESSOR PATTON

#### FOR SENIORS AND GRADUATES

**201-202. Anglo-Saxon.**—In the first semester, an introduction to the language, with the reading of prose and of some of the shorter poems; in the second semester, the *Beowulf*. **6 s.h. (w)**  
PROFESSOR BAUM AND ASSOCIATE PROFESSOR TALBERT  
[Not offered in 1949-50]

**203-204. Chaucer.**—Reading and interpretation of the text: in the first semester the principal *Canterbury Tales*; in the second, the *Troilus* and the minor poems. A reading report and a term paper. **6 s.h. (w)**  
PROFESSOR BAUM

**205-206. Middle English.**—Close study of selected texts, with attention to the development of the language and to the history of the literature from 1200 to 1400. A term paper each semester. **6 s.h. (w)** PROFESSOR BAUM

**215-216. Elizabethan Drama.**—Careful study of one major dramatist (Jonson or Beaumont and Fletcher) and extensive reading in the other writers (Heywood, Ford, Massinger, Marlowe, Middleton) with emphasis on the nature and qualities of their work in its historical background. Exposition of plays, reports, and a term paper each semester. **6 s.h. (w)**

PROFESSOR GILBERT AND ASSOCIATE PROFESSOR TALBERT

**217. Milton.**—Milton's poetry and prose, with emphasis on the major poems. **3 s.h. (w)**  
[Offered in second semester] PROFESSOR GILBERT

**218. Spenser.**—The reading of Spenser's works, with chief attention to *The Faerie Queene*. **3 s.h. (w)**  
[Not offered in 1949-50] PROFESSOR GILBERT

**219-220. The Eighteenth Century.**—Swift, Pope, Defoe, Addison, Steele, and others are studied in the first semester; in the second, Gray, Johnson, Boswell, Goldsmith, the letter writers, and the early Romantic poets. Lectures, oral reports, and a term paper each semester. **6 s.h. (e)**

PROFESSOR IRVING

**221-222. English Literature of the Early Nineteenth Century.**—A survey of the principal writers and literary monuments from 1798 to 1830; in the first semester principally Wordsworth, Coleridge, and Lamb; in the second, Shelley, Byron, Keats, and Hazlitt. Occasional lectures, frequent classroom discussions of reading assignments, written and oral reports, and a term paper each semester. **6 s.h. (w)**

VISITING PROFESSOR FOERSTER

[Not offered in 1949-50]

**223-224. English Literature of the Later Nineteenth Century.**—Some of the most important works of the period are discussed in class; the background is filled in by lectures and assigned reading. The first semester is devoted chiefly to Carlyle, Dickens, Thackeray, Tennyson, and Browning; the second

semester to Arnold, Ruskin, Pater, George Eliot, Meredith, the Pre-Raphaelites, and Swinburne. A term paper each semester. 6 s.h. (w) PROFESSOR BAUM  
[Not offered in 1949-50]

**227. Literary Criticism.**—A study of the Greek and Roman critics, in chronological order but with emphasis on their permanent value rather than on the mere history; also the Continental and English critics to about 1700. Lectures, reports, and a term paper. 3 s.h. (w) PROFESSOR GILBERT

**229-230. American Literature, 1800-1870.**—The writers emphasized in the first semester are Emerson, Thoreau, and Hawthorne; in the second semester, Poe and Melville. In the first semester some attention is given also to Edwards, Franklin, Bryant, Longfellow, Holmes, Whittier, Lowell, and Parkman; and in the second semester, to Byrd, Jefferson, Freneau, Brown, Irving, Cooper, Kennedy, Simms, Timrod, and Lincoln. An oral report and a term paper each semester. 6 s.h. (E)

PROFESSOR HUBBELL AND VISITING PROFESSOR FOERSTER

**233-234. American Literature since 1870.**—Selected works of the chief writers of the period, including Whitman, Lanier, Mark Twain, James, Howells, Emily Dickinson, Crane, Dreiser, and others. The lectures deal with the social background and with the careers of the leading authors. One test and one term paper each semester. 6 s.h. (E) PROFESSOR GOHDES

**235. History of American Drama.**—The development of the theater and of dramatic literature in America. Emphasis will be placed on the drama as a reflection of the philosophical and social influences which affected American writing in others fields. 3 s.h. (w) ASSOCIATE PROFESSOR LEARY  
[Not offered in 1949-50]

**237. English Drama, 1642-1800.**—The Heroic Play and the Comedy of Manners of the Restoration period; and the important plays, serious and comic, of the eighteenth century. Lectures, class discussions, and short reports. 3 s.h. (w) ASSOCIATE PROFESSOR WARD  
[Not offered in 1949-50]

**239. Shakespeare Problems.**—A study of the plays and poems as an introduction to problems involved in establishing and in interpreting the texts and in determining the nature and quality of the works in relation to their background. Lectures, short reports on assigned topics, and a term paper. Prerequisite: English 123-124 or graduate standing. 3 s.h. (w)  
[Not offered in 1949-50] ASSOCIATE PROFESSOR TALBERT

**241. Studies in Dryden.**—A detailed study of the poet's non-dramatic work. Lectures on the political, religious, and literary background. A term report. 3 s.h. (E) ASSOCIATE PROFESSOR WARD  
[Not offered in 1949-50]

**245. Dante in English.**—A study of Dante's works in English translation. Open to Seniors and graduates. 3 s.h. (w) VISITING PROFESSOR ORSINI  
[Not offered in 1949-50]

**246. Literature of the Italian Renaissance.**—A survey of the principal Italian literary currents of the fifteenth and sixteenth centuries, with readings in English. The main authors treated are Politian, Castiglione, Lorenzo, Machiavelli, Ariosto, Michelangelo, Tasso. 3 s.h. (w)  
[Not offered in 1949-50] VISITING PROFESSOR ORSINI

**247-248. American Literature to 1800.**—The history of the literature and the background and development of American thought in the seventeenth and eighteenth centuries. The first semester will cover the Colonial period, the second semester the revolutionary and early national periods. Lectures, discussion, and a term paper. 6 s.h. (w) ASSOCIATE PROFESSOR LEARY  
[Not offered in 1949-50]



**249-250. English Literature in the Sixteenth Century.**—In the first semester, the beginnings of the drama; Barclay and Skelton; More, Elyot, Cheke, and their circles; Ascham; *Tottel's Miscellany* and *A Mirror for Magistrates*; Gascoigne, North, Sir Thomas Hoby, and the translators; Lyly; Spenser. In the second semester, Sidney; the sonnet sequences; Marlowe, Kyd, and Peele; Green, Lodge, Nashe, and Dekker; Shakespeare; Chapman; Jonson. Some of the most important works of the period are discussed in class; the background is filled in by lectures and assigned readings. Short reports and a term paper each semester. **6 s.h. (w)** ASSOCIATE PROFESSOR TALBERT

**251-252. English Literature in the Seventeenth Century.**—A survey course which covers the major works in prose, poetry, and drama from 1600 to the death of Dryden. Lectures, reports, and term papers. **6 s.h. (e)**

ASSOCIATE PROFESSOR WARD

**269-270. Southern Literature.**—The principal writers discussed during the first semester are Byrd, Jefferson, Wirt, Kennedy, the Cooke brothers, Legaré, Simms, Timrod, Hayne, Longstreet and other humorists, and the poets of the Civil War. Considerable attention is paid to the historical and cultural background and to Northern and British authors who wrote about the South. An oral report and a term paper are required each semester. **6 s.h. (e)**

[269 only, offered in second semester]

PROFESSOR HUBBELL

#### DEPARTMENTAL MAJOR

All majors in English will center their work around one of five period courses. One additional English course will be closely related to this period course and one will not. Related work will be chosen carefully to support wherever possible the body of knowledge acquired in the English courses. Teachers in charge of the period courses will act as an advisory board for majors and assist them in the choice of English courses, related work, and electives.

*Prerequisites:* English 1 and 2.

*Requirements for the Major:* A major in English consists of twenty-four semester hours of credit distributed as follows: *Six* hours must ordinarily be devoted to either English 55-56 or English 63-64; *six* hours to one of five designated period courses (English 143-144, 111-112, 125-126, 131-132, or 137-138); *six* hours to a course or courses contiguous with or closely related to the period course chosen; and *six* hours to a course or courses not contiguous with or closely related to the period course chosen. At least *six* hours of these must be drawn from courses the material of which is predominantly English literature written earlier than 1800. Courses in Comparative Literature, Composition, Dramatics, and Speech may be counted as related work. So far as possible, students' programs will be made up of complete year courses.

#### FORESTRY

Students without a Bachelor's degree who are preparing for work in forestry as a profession should take the courses outlined under the Academic-Forestry Combination (see pages 66-67). However, with the consent of the instructor in charge, certain forestry courses may be elected by students in other curricula provided they have had adequate preparation (see *Bulletin of the School of Forestry*).

Members of the Sophomore, Junior, and Senior classes, whether or not registered in the Academic-Forestry Combination, may elect the following course:

**52. Principles of Forestry.**—An introductory study of the American forestry movement; economic and social value of forests in the national economy; principal forest regions and timber trees in the United States; regeneration,

treatment, protection, and management of forests as permanent crops; organization and activities of existing forestry agencies. 2 s.h. (w)

[Not offered in 1949-50]

PROFESSOR THOMSON

## GEOLOGY

ASSOCIATE PROFESSOR BERRY; MR. DORT

**51. General Geology.**—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where the principles of the science are studied in the field. Three one-hour lectures or recitations and one three-hour laboratory. 4 s.h. (w)

ASSOCIATE PROFESSOR BERRY

**52. General Geology.**—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 51. 4 s.h. (w)

ASSOCIATE PROFESSOR BERRY

**53. Physiography.**—A detailed study of the processes at work on the land surface and the topographic forms produced by them under different climatic conditions. This course includes practice in the interpretation of topographic maps. Three one-hour lectures or recitations and one three-hour laboratory. Given both semesters but not open to students with credit for Geology 51. Limited to twenty-four students. 4 s.h. (w)

MR. DORT

**64. Map Reading and Construction.**—The use of map scales, azimuths, meridians, and parallels, methods of location, interpretation of topographic maps with three weeks of practical instruction in the field. This course is planned to enable the student to understand maps, and as an introduction to possible work with cartography divisions of airlines and planning departments. Two hours of lecture and three hours of laboratory each week, given both semesters. 3 s.h. (E)

ASSOCIATE PROFESSOR LEMERT

**101-102. Mineralogy.**—This course is devoted to a study of the fundamentals of crystallography and the crystal groups, using crystal models and crystallized minerals. Followed by the systematic study of about 175 important minerals. Determinative work includes exercises on sight recognition, identification by blowpipe, and other physical and chemical tests. Excursions will be made to neighboring mineral localities. Three two-hour periods. Prerequisite: Chemistry 1-2 (can be taken concurrently). 8 s.h. (w)

ASSOCIATE PROFESSOR BERRY

**151. Economic Geology.**—Study of world distribution, geologic occurrence, and uses of important mineral deposits. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 101-102. 4 s.h. (w)

MR. DORT

**152. Introductory Paleontology.**—Systematic study of invertebrate paleontology, dealing mainly with generic characters of the fossil invertebrates and their use in identifying and correlating geologic formations. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisites: Geology 51, 52, and Zoology 1. 4 s.h. (w)

ASSOCIATE PROFESSOR BERRY

## DEPARTMENTAL MAJOR

*Prerequisites:* None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.

*Major Requirements:* Geology 51, 52, 101-102, 151, 152.

## GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN; ASSISTANT PROFESSOR MAXWELL, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR KRUMMEL; ASSISTANT PROFESSOR SHEARS; MR. GRASTY; MISS RUST

*All courses except Elementary and Intermediate German may be taken for one semester only, when circumstances make it advisable.*

1-2. **Elementary German.**—6 s.h. (E & W)

ASSISTANT PROFESSOR MAXWELL AND STAFF

3-4. **Intermediate German.**—6 s.h. (E & W)

ASSOCIATE PROFESSOR WILSON AND STAFF

51-52. **Introduction to German Literature.**—A third year course. Both literary and linguistic factors are combined with practice in the spoken language. 6 s.h.

PROFESSOR VOLLMER AND STAFF

*Several courses in the 100 and 200 group will be offered in 1949-50. Please consult list furnished by Dean's Office before registration.*

107-108. **Scientific German.**—The German language as used in the various contemporary sciences. 6 s.h.

ASSOCIATE PROFESSOR WILSON; AND ASSISTANT PROFESSOR MAXWELL

109-110. **German Prose Fiction.**—Origin and development of the German novel with special emphasis on the nineteenth century. 6 s.h.

ASSOCIATE PROFESSOR WILSON

111-112. **Introduction to the Classic Drama.**—Selected dramas from Lessing, Goethe and Schiller. 6 s.h.

ASSOCIATE PROFESSOR WILSON

115-116. **German Drama of the Nineteenth Century.**—A study of leading dramatists from Kleist to Hauptmann. 6 s.h.

ASSOCIATE PROFESSOR WILSON

117-118. **German Conversation.**—A course in writing and speaking German for properly qualified students. 6 s.h.

PROFESSOR VOLLMER AND ASSISTANT PROFESSOR MAXWELL

119-120. **German Literature in English Translation.**—The great epochs in German literature studied through English translations. 6 s.h.

PROFESSOR VOLLMER

121-122. **Schiller.**—A study of his life and works in relation to the culture of the eighteenth century. 6 s.h.

ASSISTANT PROFESSOR MAXWELL

123-124. **Modern German Short Story.**—Development and technique of the Novelle. 6 s.h.

ASSISTANT PROFESSOR SHEARS

125-126. **Contemporary German Literature.**—A study of representative works of the twentieth century. 6 s.h.

ASSISTANT PROFESSOR SHEARS

131-132. **Introduction to Goethe.**—The reading of his early novels and epics and works pertaining to his life. 6 s.h.

ASSISTANT PROFESSOR MAXWELL

201-202. **Goethe.**—A study of Goethe's life and works, with special emphasis upon the broader aspects of his ever-widening interests and literary activities. 6 s.h.

203-204. **Eighteenth Century.**—Eighteenth-century German literature in its relation to contemporary European philosophy. 6 s.h.

PROFESSOR VOLLMER

205-206. **Middle High German.**—The language and literature of Germany's first classical period. 6 s.h.

PROFESSOR VOLLMER

207-208. **German Romanticism.**—The course covers the entire field of German romanticism from 1800 to 1850. 6 s.h.

PROFESSOR VOLLMER



209-210. Kleist, Grillparzer, and Hebbel.—The dramatic development in Germany after Schiller. 6 s.h.

211-212. Heinrich Heine and Young Germany.—Heine's life and thought, culminating in the Jungdeutschland Movement. 6 s.h. PROFESSOR VOLLMER

213-214. Literature of the Empire, 1871-1914.—A study of the literature of this period with emphasis on a few leading writers. 6 s.h.

ASSISTANT PROFESSOR SHEARS

#### DEPARTMENTAL MAJOR

1. *Prerequisites*: German 1-2 and 3-4.

2. *Major Requirements*: Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104, and 119-120.

#### HONORS IN GERMAN

##### *Prerequisites*:

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.

2. A student who has completed at least twelve semester hours of college German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German.

##### *General Rules*:

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. *Work in the German Department*: The amount of work taken in the German Department shall be the equivalent of thirty-six semester hours. Of this the work done in the Honors tutorials shall count twelve hours, six hours for the Junior year and six hours for the Senior year. The comprehensive examinations at the end of the Senior year are counted as part of this twelve semester hours credit.

III. *Related Work*: The related work, which constitutes at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the Departmental Committee gives special permission for the student to take his related work in one department.

IV. *General Honors Examinations*: In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser, on his Honors Reading. A general oral examination, conducted by the Departmental Committee and presupposing a general knowledge of the development of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

#### GOVERNMENT

See courses listed under Political Science.

#### GREEK

ASSISTANT PROFESSOR TRUESDALE, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR WAY

Courses 15, 121-122, 141-142, and 131 are entirely in English and require no knowledge of the Greek language. The purpose in offering them is to give a wider circle of students some conception of the debt which modern civilization owes to the Greeks.

1-2. **Course for Beginners.**—Open to all students. 6 s.h. (w)

ASSISTANT PROFESSOR TRUESDALE

53-54. **Xenophon.**—*Anabasis*, Books I-IV. Open to students who have completed course 1-2. 6 s.h. (w)

ASSISTANT PROFESSOR ROSE

105-106. **Homer.**—*Iliad*, Books I-III. **Plato.**—*Apology* and *Crito*. Open to students who have completed courses 1-2 and 53-54 or their equivalents. 6 s.h. (w)

ASSISTANT PROFESSOR TRUESDALE

107-108. **Euripides.**—*Medea*. **Sophocles.**—*Oedipus Tyrannus*. **Aristophanes.**—*Clouds*. Open to students who have completed the required preliminary work. 6 s.h. (w)

STAFF

15. **Mythology.**—A study of Greek mythology and the use made of it in art and English literature. No knowledge of the Greek language is required. Open to Freshmen as an elective in either semester. 3 s.h. (w & E)

ASSISTANT PROFESSORS ROSE AND TRUESDALE

115-116. **Sight Reading in Greek.**—Three hours per week through the year. 4 s.h. (w)

ASSISTANT PROFESSOR TRUESDALE

117-118. **Greek Prose Composition.**—The character of this course is determined by the needs of the students who elect it. 3 s.h. (w)

ASSISTANT PROFESSOR ROSE

121-122. **Greek Literature in English Translation.**—The purpose of this course is to give a general survey of the life and civilization of the Greeks, especially to those who have never studied the language but wish to become acquainted with some of the choicest portions of the literature by the use of translations. It is, however, open as an elective to all Juniors and Seniors, whether they know Greek or not. First, the *Iliad* and the *Odyssey* are read in translation and illustrated with stereopticon views of the excavations and discoveries at Troy and other cities of the Aegean age; then, many of the extant plays of the three great tragic poets are studied in English translation. 6 s.h. (w & E)

ASSISTANT PROFESSORS ROSE AND TRUESDALE

*Students may elect course 122, whether they have taken course 121 or not.*

141-142. **Greek Art.**—Lantern lectures designed to provide a comprehensive survey of the development of Greek sculpture and Greek architecture in all periods. The course is opened by a preliminary account of Egyptian, Mesopotamian, and Aegean backgrounds. Open to Seniors, Juniors, and (by arrangement) Sophomores. No knowledge of Greek is required. 6 s.h. (E)

ASSISTANT PROFESSOR WAY

*Students may elect course 142, whether they have taken course 141 or not.*

131. **History of Greece.**—The history of the Greek world from the Late Bronze Age to the Macedonian conquest. Open to Seniors, Juniors, and (by arrangement) Sophomores. No knowledge of Greek is required. 3 s.h. (w & E)

ASSISTANT PROFESSOR WAY

203-204. **Homer.**—*Odyssey*. **Pindar and Bacchylides.** 6 s.h. (w)

ASSISTANT PROFESSOR TRUESDALE

207-208. **Greek Orators.**—Selected speeches. 6 s.h. (w)

ASSISTANT PROFESSOR WAY

209-210. **Plato.**—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h. (w)

ASSISTANT PROFESSOR WAY

*Only one of the three year-courses for Seniors and Graduates (203-210), listed above, is offered each year.*

243. **Athenian Topography.**—The topography and monuments of ancient Athens. 3 s.h. (w)

ASSISTANT PROFESSOR WAY



**244. Greek Epigraphy.**—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. 3 s.h. (w) ASSISTANT PROFESSOR WAY

**245. Greek Dialects.**—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined with reference, where possible, to their origin in proto-ethnic Greek. 3 s.h. (w) ASSISTANT PROFESSOR WAY

**246. Greek Historical Inscriptions.**—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. 3 s.h. (w) ASSISTANT PROFESSOR WAY

**247-248. Greek Archaeology.**—Advanced course in the general field for Seniors and Graduates, comprising architecture, sculpture, vases, and the minor arts. 6 s.h. (w) ASSISTANT PROFESSOR WAY

*Of the courses numbered from 243 to 248 only two semester-courses are offered each year.*

#### DEPARTMENTAL MAJOR

*Prerequisites:* Greek 1-2.

*Major Requirements:* A candidate for a major in Greek must complete twenty-four semester hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

(a) Greek 105-106, 131, 141-142, 107-108, 122, and 117-118.

(b) Four year-courses in related departments.

(c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of nine semester hours is given.

Students who enter the University with advanced standing in Greek take higher courses in the language than those listed above.

At the end of the Senior year candidates for Honors must pass a comprehensive examination in writing on the subject-matter covered by their studies in Greek.

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*Graduates of Duke University may attend the American School of Classical Studies at Athens, Greece, without charge for tuition, and are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

#### HEALTH AND PHYSICAL EDUCATION

##### TRINITY COLLEGE AND COLLEGE OF ENGINEERING

MR. CAMERON, DIRECTOR; MESSRS. AYCOCK, BAILEY, BLY, CALDWELL, CHAMBERS, COOMBS, COX, FALCONE, GERARD, HAGLER, HARRISON, HENDRIX, HENNEMIER, HILL, LEWIS, MONTFORT, PARKER, PERSONS, WADE

##### REQUIRED PHYSICAL EDUCATION FOR MEN

A student must complete four semesters of physical education in order to fulfill graduation requirements.

All students are given a medical and physical examination before registration. Students who have physical handicaps must register in Corrective Physical Education. Students assigned to these classes will take work suited to their particular needs and capacities.

Students without defects will register in Physical Education 1 and 2 in their Freshman year. The activities are selected from the following: Apparatus, combatives, games (fundamentals of basketball, soccer, volleyball), swimming and tumbling. Swimming is required each semester of Freshman year.

After a student has completed Physical Education 1 and 2, he may complete his physical education requirement by electing and satisfactorily completing two courses from the following individual and team sports: Apparatus-tumbling, advanced; badminton; basketball-handball; boxing-wrestling; lacrosse; swimming-water safety techniques; tennis-volleyball.

For information concerning gymnasium uniform see page 166.

### ELECTIVES IN PHYSICAL EDUCATION

Students in Group VI A may elect fifteen semester hours from the courses offered below. Six semester hours may be elected from the courses listed under Special Methods in Physical Education and nine semester hours may be elected from the courses listed under Theory and Practice in Physical Education.

These courses are arranged to meet the increasing demand for teachers who are qualified to coach and teach physical education. These courses should be selected with the advice of the Director of Undergraduate Studies in order to meet the needs of the individual.

### SPECIAL METHODS IN PHYSICAL EDUCATION

**163. Athletic Coaching in Secondary Schools.**—Theory and practice in the fundamentals of coaching baseball and track. Prerequisites: courses 1 and 2. Open to Juniors and Seniors. Sophomores by permission only. 3 s.h.

MR. COOMBS AND MR. CHAMBERS

**164. Athletic Coaching in Secondary Schools.**—Theory and practice in the fundamentals of coaching football and basketball. Prerequisites: courses 1 and 2. Open to Juniors and Seniors. Sophomores by permission only. 3 s.h.

MR. WADE AND STAFF

### THEORY AND PRACTICE IN PHYSICAL EDUCATION

**65. History and Principles of Physical Education.**—A study of the objectives and principles upon which physical education is based. The history of physical education is studied in order to show the changes in objectives, principles, and methods and as an aid in the interpretation of trends. Open to Sophomores, Juniors, and Seniors. 3 s.h.

MR. AYCOCK, MR. GERARD

**172. Recreational Leadership.**—Combative contests, games, mass athletics, supervision of community recreation. Open to Juniors and Seniors. Sophomores by permission only. 3 s.h.

MR. GERARD

**173. Individual Gymnastics.**—The diagnosis of abnormal cases, including overweight, underweight, post-operative, postural, and flat-foot cases, with the prescription of exercise for their correction. Open to Juniors and Seniors. Sophomores by permission only. 3 s.h.

MR. AYCOCK

**182. The Administration of Health and Physical Education in Secondary Schools.**—Presents the everyday problems that arise in the experience of the teacher of health and physical education. Open to Juniors and Seniors. 3 s.h.

MR. AYCOCK, MR. GERARD

**187. School Programs of Physical Education.**—Open to Juniors and Seniors. 3 s.h.

MR. GERARD

**190. Protective Practices in Physical Education.**—A study of safety measures including training and first aid. Open to Juniors and Seniors. 3 s.h.  
MR. CHAMBERS

#### WOMAN'S COLLEGE

ASSOCIATE PROFESSOR GROUT, CHAIRMAN; ASSOCIATE PROFESSORS BOOKHOUT AND LEWIS; MISS HOLTON, MISS MCCOLL, MISS PAYNE, MRS. SWASEY, MISS UHRHANE, AND MISS WEBSTER

#### REQUIRED PHYSICAL EDUCATION FOR WOMEN

Four semester hours of physical education, to be completed in six semesters, are included in the 124 hours required for graduation.

Every student must take one semester ( $\frac{1}{2}$  s.h.) of each of the following types of activity: team sport, individual or dual sport, dancing, and swimming (if she is unable to pass the swimming test). The remaining work necessary to complete the requirement may be elected from the activities listed in this section. All required work should be completed by the end of the Junior year.

All students are given a physical and medical examination upon entering and at intervals throughout their college course. Classes in individual physical education and light sports are arranged for those who should not take the more active work.

For information concerning gymnasium costumes refer to page 166.

#### SPECIAL FRESHMAN PHYSICAL EDUCATION

At the beginning of the Freshman year, after a series of tests has been given, individual conferences are held and each student is guided into the type of activity she most needs, as determined from the evaluation of the test scores and the results of the conference. In addition, one lecture hour of orientation and health is required during the first semester.

In the Woman's College the three-year requirement is met as follows:

##### FRESHMAN YEAR

**Physical Education 1, Orientation and Body Mechanics.**—First semester.  $\frac{1}{2}$  s.h.

**Freshman Activities.**—First semester.  $\frac{1}{2}$  s.h. Second semester. 1 s.h.

##### SOPHOMORE YEAR

**Physical Education Activities.**—1 s.h.

##### JUNIOR YEAR

**Physical Education Activities.**—1 s.h.

#### PHYSICAL EDUCATION ACTIVITIES

*Dancing:* Folk dancing, modern dance, social dancing, square dancing, tap dancing.

*Individual and dual sports:* Archery, badminton, bowling, diving, fencing, golf, life saving, light sports, riding, stunts and tumbling, swimming, tennis.

*Team sports:* Basketball, hockey, softball, volleyball.

*Special developmental activities:* Body mechanics, individual physical education, fundamental rhythms, motor skills, posture.

#### PHYSICAL EDUCATION THEORY

Students in Group VI A may receive academic credit for all courses listed below.

Students in Group VI B may receive academic credit for Physical Education 102, Health Education 41 and 112.

Students in all groups may receive credit for Physical Education 105-106, 108, 114, and Health Education 41, 112, and 62.



**101. History and Principles of Physical Education.**—An historical survey of physical education stressing the relation between the types of activity developed and the social and political ideals of different nations and periods. A study of the principles upon which physical education is based. Analysis of successful teaching in physical education. 2 s.h. (E)

ASSOCIATE PROFESSOR GROUT

**102. The Teaching of Physical Education in Elementary Schools.**—A study of methods and materials used in teaching physical education to children; includes discussion on the theory of physical education, and practice in teaching elementary school activities. Required of women students in Group VI B. 3 s.h. (E)

MISS WEBSTER

**103. Group Games of Low Organization.**—Childhood rhythms and games of low organization. Required of students preparing for full-time teaching of physical education. 2 s.h. (E)

MISS WEBSTER

[Offered every other year alternating with P.E. 107.]

**105-106. Methods and Materials in Recreation.**—A course intended to familiarize students with recreation activities and methods of organizing groups in these activities. Laboratory work includes practical leadership experience with a recreational club or group in a city organization. General fields covered are: Social Activities, Music Activities, Folk and Square Dancing, Games and Sports, Arts and Crafts, Drama Activities, Nature and Outing Activities. Open to Juniors and Seniors without prerequisite. A year course meeting five periods per week throughout the year. 6 s.h. (E)

MRS. SWASEY

**107. The Teaching of Rhythmic Activities.**—Theory and practice in different types of rhythms and dancing. Stress is laid on those types suitable for school use. 2 s.h. (E)

ASSOCIATE PROFESSOR LEWIS

[Offered every other year alternating with P.E. 103.]

**108. Problems in Community Recreation.**—A study of the historical development of organized recreation; recent trends and theories in recreation; qualifications and preparation for leadership; recreational interest of different age groups; the administration of playgrounds and community centers, including the study of local and state recreation departments. Open to Juniors and Seniors without prerequisite. 3 s.h. (E)

MRS. SWASEY

**114. Kinesiology.**—A study of muscle function. Analysis of fundamental movements with emphasis on the development of normal posture and efficient body movement. Required of students taking the 30-hour major in physical education. Prerequisite: Zoology 1 and 2, and Zoology 53. 3 s.h. (E)

ASSOCIATE PROFESSOR BOOKHOUT

**118. Orthopedic and Remedial Physical Education.**—A study of conditions requiring special or remedial exercises for different age groups. The teaching of body mechanics to normal groups. Purpose and technique of physical examination and evaluation of results. 2 s.h. (E)

ASSOCIATE PROFESSOR BOOKHOUT

**119. Organization and Administration of Physical Education.**—Curriculum building in physical education. A study of facilities including plans and equipment for gymnasia and playgrounds. Administrative problems of the high-school teacher and public school supervisor. Tests and measurements in physical education. 2 s.h. (E)

ASSOCIATE PROFESSOR GROUT

**181-182. Methods and Materials in Physical Education.**—A course in the theory and practice of teaching and officiating in games and sports. Laboratory hours arranged to provide practice on the field and in the gymnasium. 4 s.h. (E)

ASSOCIATE PROFESSOR LEWIS AND STAFF

**185-186. Advanced Methods and Materials in Physical Education.**—A continuation of 181-182. Required of Seniors preparing for full-time teaching in physical education. 4 s.h. (E)

ASSOCIATE PROFESSOR LEWIS AND STAFF



## HEALTH EDUCATION

**41. Personal Health Problems.**—This course is designed to present basic health information to the student as an individual and also from point of view of the student's relation to the social group in which she lives. The emphasis is on the individual as a dynamic, functioning personality, rather than as an anatomical structure. Open as an elective to all students and prerequisite for students preparing to teach physical education. 3 s.h. (E)

MISS UHRHANE

**62. Community Health Problems.**—This course includes problems of health in community living such as environmental health hazards and their control, methods of community attack on specific diseases and disorders, health problems specific to certain groups, and the place and contributions of official and non-official public health agencies. With the assumption that the student is now a participating member of and will be a future leader in the community, an attempt is made to correlate and emphasize the physical, mental and emotional aspects of health in their relation to rich and effective and more complete social living. Prerequisite: H.E. 41. 3 s.h. (E)

MISS UHRHANE

**112. School Health Problems.**—An introduction to school health problems as they confront the classroom teacher. The course recognizes the child's place as the center of the instructional program, and the center around which the environmental aspects of the school are organized. Specific problems to be studied include: physical inspection of school children, communicable disease control, problems of the school plant in relation to the child's health, safety education, teaching procedures based on modern educational theories, and the physical and mental health status of the teacher as contributory to the effectiveness of the whole program. Required of all students in Group VI B and of all students preparing to teach physical education in secondary schools. 3 s.h. (E)

MISS UHRHANE

REQUIREMENTS FOR TEACHING HEALTH AND PHYSICAL  
EDUCATION IN PUBLIC SCHOOLS

The following requirements have been set up for students in Group VI A who wish to qualify as full-time or part-time teachers of Health and Physical Education. These requirements meet the standards of the North Carolina Department of Public Instruction for certification in Health and Physical Education and of most of the other states represented in the student body. Students preparing to teach in any state are advised to check with the department as to specific requirements.

*Prerequisites:* Zoology 1-2, Health Education 41.

Thirty semester hours, including Physical Education 101, 103, 107, 114, 118, 119, 181-182, 185-186, Health Education 112 and Zoology 53, 142.

*Education Requirements:* Consult Department of Education.

Students preparing to teach physical education and health on a part-time basis only are advised to take at least the following program:

*Prerequisite:* Health Education 41.

A minimum of fifteen semester hours, including Physical Education 101, 103, 107, 119, 181-182, Health Education 112.

*Education Requirements:* Consult Department of Education.

## HISTORY

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR HAMILTON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR FERGUSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CARROLL, CLYDE, LANNING, AND SYDNOR; ASSOCIATE PROFESSORS CURTISS, MANCHESTER, NELSON, ROBERT, ROPP, AND WOODY; ASSISTANT PROFESSORS ACOMB, PARKER, STEVENS, AND WATSON; DR. HOLLEY; MESSRS. COLTON AND GIVAN

The undergraduate courses in history are designed to afford (1) an introduction to the study of history by a consideration of the history of the modern world; (2) a more intensive study of general American history; (3) opportunities for more advanced study of phases of American, English, European, Hispanic-American, Russian, and Eastern history which interest the teachers and students.

Course 1-2 or 51-52 or an equivalent is a prerequisite for all other courses; course E 1-2 is the prescribed course for students in the College of Engineering; courses 91 and 92 are prerequisite for courses 113-114, 153-154, 203-204, 207-208, 209-210, 215-216, 263-264. Sophomores who took only one semester of course 1-2 in the Freshman year may be admitted to courses 91 and 92, 63, or 67-68, provided they made a grade of "B" or above on the semester taken. Courses offered for Seniors and Graduates are limited to twenty-five students; Juniors may not elect them without special permission from the Department and the Council on Graduate Instruction. Sophomores must obtain permission of the instructor in order to be admitted to courses numbered above 100; students who are not fully qualified Sophomores will not be admitted to these courses.

**1-2. Historical Background of the World Today.**—This course is an introduction to the study of modern history with special reference to the issues in the modern world. Topics selected for emphasis are: the contest between liberty and authority in the modern state; changing economic organization and theory—capitalism and the challenges to it; the problems of peace and war among the states; the changing faiths men live and die by. Beginning about 1500 with the rise of the European dynastic states, the story is pursued in the first semester to approximately 1871, and in the second through the two great world wars. The central theme in both semesters is the expansion of the influence of Western Europe throughout the world, with some attention to the rise of the United States as a world power. **6 s.h. (w & e)**

Sophomores and Juniors are not admitted to this course. One semester of the course may be counted as a general elective but not as fulfilling the minimum uniform requirements or, except as provided above, as a basis of further work in history.

ASSOCIATE PROFESSOR HAMILTON; ASSISTANT PROFESSORS ACOMB, FERGUSON, AND STEVENS; MESSRS. COLTON AND GIVAN

**E. 1-2. The United States in the World Today.**—This course is designed for students in the College of Engineering. Topics treated in the first semester are: the rise of national states in Western Europe and other factors attending the discovery and settlement of the New World; the foundation of American institutions; the establishment of the Federal Republic; the frontier, the westward movement, and contemporary international developments; the Civil War; the growth of industry and its influence on society; the Spanish-American War and the emergence of the United States as a world power. In the second semester the emphasis is on the growing interdependence of the Western nations in the twentieth century; their influence throughout the world; the participation of the United States in the World Wars and the resultant problems of today. **6 s.h. (w)**

DR. HOLLEY

**51-52. Historical Background of the World Today.**—An introductory course for Sophomores, Juniors, and Seniors dealing with the topics indicated in the description of course 1-2. **6 s.h. (w & e)**

ASSOCIATE PROFESSORS CURTISS AND ROPP; ASSISTANT PROFESSOR PARKER; MR. GIVAN

[Not open to Freshmen or to students who have had course 1-2.]

**63. Naval History and Elementary Strategy.**—After a review of earlier periods, attention is given to the rise of sea-power and its importance in more recent times and to naval actions, especially in the two World Wars. This course is not open to students who have had N.S.102X. **3 s.h. (w)**

ASSOCIATE PROFESSOR ROPP

**67-68. The Background of Modern European Civilization.**—The work in this course deals with salient features of the history of the peoples of Europe and adjacent areas from the period of the earliest written records to the formation of the European States-system (c. 1648). Particular attention is paid to the correlation of economic and social activities with religious, artistic, and intellectual development. While intended primarily for Sophomores, the course is open also to qualified Juniors and Seniors. **6 s.h. (e)**

ASSOCIATE PROFESSOR NELSON

**91. The Development of American Democracy to 1865.**—This course is a study of trends vital to an understanding of the United States today. The main theme is the development of American democracy. Problems of foreign policy, the growth of capitalism, political practices, social behavior, and conflicting ideals are considered in relation to this main theme. **3 s.h. (w & e)**

ASSISTANT PROFESSORS WATSON AND STEVENS

**92. The Development of American Democracy, 1865 to the Present.**—A continuation of History 91 with emphasis upon the emergence of contemporary problems. **3 s.h. (w & e)**

ASSISTANT PROFESSORS WATSON AND STEVENS

Courses 91 and 92 are intended both to serve as continuation courses in the study of history and to afford the student an opportunity to gain the understanding of the past of the United States essential for intelligent citizenship.

**105-106. English Constitutional History.**—A history of England with emphasis on constitutional aspects. This course is prescribed for students in the Pre-Legal Group in the Junior or Senior year. **6 s.h. (w)**

ASSOCIATE PROFESSOR HAMILTON

*Students who have had course 123-124 may not receive credit for this course.*

**107-108. Social and Cultural History of England.**—A study of English history from the fourteenth century to the present time in an effort to arrive at a synthesis of social and political events and thus provide a background for the study of English literature. Emphasis is placed on the ages of Chaucer, Shakespeare, and Milton; the eighteenth and early nineteenth centuries; the reign of Victoria and the twentieth century. **6 s.h. (e)**

ASSISTANT PROFESSOR FERGUSON

*Sophomores who made an average grade of "B" or above on course 1-2 may be admitted to this course.*

**113-114. America in the Twentieth Century.**—A historical study of political, economic, and social problems of twentieth-century United States. Emphasis is placed on reform movements from the Muckrakers through the New Deal, the emergence of the United States as a world power, and conflicting ideas and ideologies. **6 s.h. (w)**

ASSISTANT PROFESSOR WATSON

**115-116. The Age of Absolute Monarchy and the French Revolution.**—The study in the first semester deals primarily with the political and social institutions of Western Europe in the seventeenth and eighteenth centuries, including such topics as the absolute monarchy in theory and practice, the peasants, the



nobles, commercial and industrial classes, the Church. The study in the second semester includes the old regime in France, the French Revolution, and Napoleonic institutions in Western Europe. **6 s.h. (E)**

ASSISTANT PROFESSOR ACOMB

**123-124. English History.**—A study in the first semester of the development in England of the institutions and habits of life characteristic of the nation and in the second of the extension of English influence throughout the world in the eighteenth, nineteenth, and twentieth centuries. **6 s.h. (W)**

PROFESSOR LAPRADE

*Students who have had course 105-106 may not receive credit for this course.*

**125-126. Europe in the Nineteenth Century.**—The work in the first semester deals with the emergence of the Napoleonic empire from the French Revolution and subsequent events to 1861, including such topics as the organization of Europe against Napoleon, the attempts to settle Europe at Vienna and afterward, the revolutions of 1830 and 1848, and the creation of the kingdom of Italy. Readings are assigned from contemporary writers. The work in the second semester begins with the growing importance of the sciences, with attention to Darwin and Faraday. It includes such topics as the application of thermodynamics and electrodynamics to industry, the spread of the industrial revolution from England to America and the Continent, the intensification of social conflict, the rise of Marxian and Fabian socialism, Prussia and the unification of Germany, the rivalry of the European nations in Asia and Africa. **6 s.h. (W)**

ASSISTANT PROFESSOR PARKER

[Not offered in 1949-50]

**127. History of Latin America Through the Formation of the National Governments.**—**3 s.h. (W)**

PROFESSOR LANNING

**128. Inter-American Affairs.**—This course treats the relations of the Latin-American states with each other and with the United States with the design of explaining the current significance of Latin America. Chief emphasis is placed upon social problems and movements common to all the republics and upon the role of the United States in Latin-American affairs, including such topics as American intervention; contributions of the United States to Latin-American life in such matters as public health; Pan-Americanism; Pan-Hispanism; foreign penetration and ideologies; the cultural and commercial aspects of the Good Neighbor Policy; Latin-American states in the World War. **3 s.h. (W)**

PROFESSOR LANNING

**129-130. European Expansion Overseas.**—In the first semester attention is given to the age of discovery and exploration, the origin and development of the great European empires overseas, and the influence of this movement on the peoples of Western Europe. The work in the second semester deals with the decline of the mercantile empires of the eighteenth century, the rise of free-trade expansion, and the revival of mercantile imperialism in the late nineteenth and twentieth centuries. **6 s.h. (W)**

ASSOCIATE PROFESSOR MANCHESTER

[Not offered in 1949-50]

**Ancient History.—Greek 131—Latin 131-132.**—See Departments of Greek, Latin and Roman Studies. These courses do not count toward a major in history. **(W)**

**135-136. Europe in the Twentieth Century.**—The work in the first semester deals with the period before 1920, including such topics as international relations at the beginning of the twentieth century, the rise of German naval power, the Triple Alliance and the Triple Entente, the economic interdependence of the world, the Turkish Revolution, the Turco-Italian War and the Balkan wars, the first World War, and its immediate aftermath. In the second semester such topics are treated as the rise of totalitarian states, the disruption of world trade, and the second World War. **6 s.h. (W)**

PROFESSOR CARROLL AND ASSOCIATE PROFESSOR HAMILTON



**141-142. The Far East from Commodore Perry to Chiang Kai-shek.**—Historical interpretations of the role of Eastern Asia in the recent World War with attention to such topics as Western imperialism in China and Japan in the nineteenth century; the rise of Japan as a military and industrial power; the emergence of militant Chinese nationalism; the fusion of the Far Eastern and the European wars into a world conflict. **6 s.h. (w)** PROFESSOR CLYDE

**153-154. The History of the South.**—A study, beginning in the Colonial period, of the development of the Southern part of the United States with particular attention to its distinctive characteristics and institutions and to their influence in shaping Southern attitudes toward major questions of national policy. **6 s.h. (w)** PROFESSOR SYDNOR

**161-162. Russia from Ivan the Terrible to Stalin.**—Topics treated include the rise of the Russian state and its relations with Poland and Turkey; the agrarian problem and the rise of industry; the Russian Revolution; the political, agricultural, and industrial policies of the Soviet Union; the role of the U.S.S.R. in World War II and its postwar policies. **6 s.h. (w)**

ASSOCIATE PROFESSOR CURTISS

#### FOR SENIORS AND GRADUATES

**203-204. The United States, 1850-1900.**—The rise of sectionalism, secession, war-time problems of the Union and Confederacy, political and economic adjustments of Reconstruction, the status of the Negro, the New South, problems of capital and labor, the agrarian revolt, political parties and reform, the Spanish-American War. **6 s.h. (w)** ASSOCIATE PROFESSOR WOODY  
[Not offered in 1949-50]

**207-208. Social and Cultural History of the United States.**—A study of American life and manners with emphasis on educational and reform movements, religion, and the social effects of a changing economy. **6 s.h. (w)**

ASSOCIATE PROFESSOR ROBERT

**209-210. American Constitutional History.**—A study of the Colonial foundations of American constitutional attitudes, the constitutional aspects of the American Revolution, the framing and ratification of the Constitution, the statehood process and the extension of democracy, the constitutional implications of sectional conflict, and the Supreme Court in its relation to the problems of an industrial America. Prerequisites: courses 91 and 92. **6 s.h. (w)**  
[Not offered in 1949-50]

**211. The Teaching of History and the Social Studies (Education 225).**—**3 s.h. (w)** ASSOCIATE PROFESSOR MANCHESTER

**215-216. The Foreign Policy and Diplomacy of the United States.**—The work in the first semester, covering the period 1775-1877, deals with such topics as the origin and development of basic foreign policies; isolation from Europe; paramount interests in Latin America, including the Monroe Doctrine; international co-operation in the Far East. The work in the second semester, covering the period since 1877, deals with topics such as the rise of the new "manifest destiny"; beginnings of American imperialism in Latin America and the Far East; the failure of traditional neutrality in the first World War; postwar conflicts between isolation and collective security; involvement in the second World War. **6 s.h. (w)** PROFESSOR CLYDE

**217-218. Europe since 1870.**—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. **6 s.h. (w)**

PROFESSOR CARROLL

**219-220. The History of the European Proletariat.**—This course is concerned chiefly with the origins, expansion, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions

in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. 6 s.h. (w) PROFESSOR CARROLL  
[Not offered in 1949-50]

221-222. **The Age of Renaissance.**—A survey of social and cultural changes in Western Europe from Dante to Erasmus. 6 s.h. (w)  
ASSOCIATE PROFESSOR NELSON

225-226. **The Age of the Reformation.**—A survey of European civilization from 1500 through the Peace of Westphalia. 6 s.h. (w)  
[Not offered in 1949-50] ASSOCIATE PROFESSOR NELSON

227-228. **The Napoleonic Empire and Its Aftermath.**—A study, in the first term, of the conditions favoring the rise of Napoleon, the details of his rise to power, the characteristics of his Empire, its importance for European civilization, its decline and collapse, and the attempt of the conservatives at the Congress of Vienna to restore in part the pre-revolutionary world. The theme in the second term is the gradual disintegration of the settlement of Vienna through the ensuing decades to the unification of Germany in 1871. The emphasis after the collapse of the Napoleonic Empire is on Germany and the influences that made her civilization. 6 s.h. (w)  
[Not offered in 1949-50] ASSISTANT PROFESSOR PARKER

230. **The Portuguese Empire and the Rise of Brazil.**—The course deals with Portuguese explorations, the establishment of the Portuguese Empire in the East, the transplanting of Portuguese culture overseas, and the rise of a native Brazilian civilization. 3 s.h. (w) ASSOCIATE PROFESSOR MANCHESTER

231. **The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. 3 s.h. (w) PROFESSOR LANNING

232. **The Hispanic American Republics.**—3 s.h. (w) PROFESSOR LANNING

233. **The Cultural and Institutional History of Colonial Hispanic America.**—3 s.h. (w) PROFESSOR LANNING  
[Not offered in 1949-50]

234. **Political and Social Problems in the Hispanic American Republics.**—3 s.h. (w) PROFESSOR LANNING  
[Not offered in 1949-50]

235. **War in the Modern World.**—This course, which deals with military and naval history since Napoleon, is concerned with the relations between war and modern political, economic, and social conditions rather than with the details of battles. Special attention is given to the development of British and American military methods and to events in the American Civil War and the two World Wars. 3 s.h. (w) ASSOCIATE PROFESSOR ROPP

241-242. **Nationalism and Revolutionary Movements in the Far East since 1900.**—The industrialization of Japan and the rise of militaristic and totalitarian trends; modernization, republican, and communist movements in China; nationalism in Southeast Asia; American relations with these developments. 6 s.h. (w) PROFESSOR CLYDE  
[Not offered in 1949-50]

261-262. **Russia in the Twentieth Century.**—A study of the background of the Revolution of 1917 followed by an analysis of the history and policies of the Soviet state. 6 s.h. (w) ASSOCIATE PROFESSOR CURTISS

263-264. **American Colonial History and the Revolution, 1606-1783.**—The growth of institutions and economic life in the English colonies and the American Revolution. 6 s.h. (w) ASSOCIATE PROFESSOR WOODY

## DEPARTMENTAL MAJOR

*Prerequisites:* The Introductory Course in History (1-2 or 51-52).

*Major Requirements:* Students in the General Group desiring to take a major in history are required to elect twenty-four semester hours in the Department, including six semester hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

## DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better in their Freshman and Sophomore years courses 91 and 92 in addition to the introductory course in European history.

Candidates for Honors in history are required to take in the Junior year two courses in history offered in the 100 group and to make an average grade of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of fifteen semester hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in history offered in the 200 group, on which he is required to make a grade of "B" or better, and nine semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, the better-known chronicles, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of nine semester hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

## LATIN AND ROMAN STUDIES

PROFESSOR ROGERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;

ASSISTANT PROFESSOR ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION

Students who wish by study in English to make acquaintance with Roman antiquity from either a literary or an historical approach are afforded that opportunity through the courses in translated Latin Literature (111-112) and Roman History (131-132).

Work is offered in several branches of Roman Studies: Latin Language and Literature, Roman Art and Archaeology, Roman History, Roman Law. Students who present two entrance units in Latin should take course 3-4; those who present three entrance units should take courses 57 and 65 and follow up with courses 4 and 58 or 66, or both, the second semester; those who enter with four units of Latin should pursue course 51-52. A course for beginners, Latin 1-2, is open to all college students.

**1-2. Course for Beginners.**—Forms, vocabulary, pronunciation, and syntax are emphasized the first semester and will be followed by the reading and translating of Caesar's *Gallie War* the second semester. An effort is made to promote rapid development of ability to read easy Latin with satisfaction.  
6 s.h. (w or e) THE STAFF

**3. Cicero's Orations.**—Four orations including the *Manilian Law* and *Archias* are read, and attention is paid to prose style. Prerequisite: two entrance units of Latin. 3 s.h. (e) THE STAFF

**4. Vergil's Aeneid.**—Selections from Books I-VI, to the amount of four



books or more, will be read and translated, due attention being paid to prosody. Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course, unless Latin 3 was taken. 3 s.h. (E) THE STAFF

51. **Latin Prose.**—Selections from prose authors, or Cicero's *De Senectute* and *De Amicitia*, or selected books of Livy's history, with special emphasis on developing competence in reading Latin. 3 s.h. (W or E) THE STAFF

52. **Latin Poetry.**—Selections from the greatest Latin poets, especially Horace's *Odes*. 3 s.h. (W or E) THE STAFF

53. **Sallust and Tacitus.**—The *Jugurtha* of Sallust, the *Agricola* of Tacitus. Prerequisite: Latin 51-52 or an equivalent. 3 s.h. (W or E) ASSISTANT PROFESSOR ROSE

54. **Catullus.**—Most of the poems will be read, and Catullus' influence on certain ancient and modern poets will be discussed. ASSISTANT PROFESSOR ROSE

57. **Sight Reading in Classical Latin.**—One period of an hour per week devoted to practice in the reading of Latin of the classical period; designed to train students to read with facility. (See Course 4.) No outside preparation is required. 1 s.h. (W or E) ASSISTANT PROFESSOR ROSE

58. **Sight Reading in Medieval Latin.**—One period an hour per week devoted to reading interesting medieval prose and poetry. Prerequisite: at least one of the following courses: Latin 3, 4, 51, 52, and 57, or an equivalent. No outside preparation is required. 1 s.h. (W or E) ASSISTANT PROFESSOR ROSE

65-66. **Latin Prose Composition.**—Recommended to students who are pursuing course 3-4, 57, and 51-52, and may at the discretion of the instructor be required of such students. 2 s.h. (E) ASSISTANT PROFESSOR ROSE

101. **Tacitus and Suetonius.**—Interesting and historically important selections from the *Annals* or the *Histories* of Tacitus, with some parallel sections of Suetonius' *Lives of the Twelve Caesars*, are read, with attention to the literary style and the value of the historical narrative. 3 s.h. PROFESSOR ROGERS

102. **Juvenal and Persius.**—Juvenal's literary satire forms the basis of the course, and some selections from Persius are read for comparison. 3 s.h. PROFESSOR ROGERS

103. **The Roman Elegiac Poets.**

104. **Horace: Satires and Epistles.**

105. **Martial's Epigrams.**

106. **Letters of Pliny the Younger.**

107. **Livy: Ab Urbe Condita.**

108. **Cicero's Letters.**

109. **Materials and Methods.**—A study of Latin in the secondary school curriculum for prospective teachers of Latin in high schools. Prerequisite: eighteen approved semester hours of college Latin, including courses 51-52, 53-54, or equivalent courses. Required of students who plan to teach Latin in state high schools. 3 s.h. ASSISTANT PROFESSOR ROSE

111-112. **Roman Literature in English Translation.**—Selective readings in Latin literature in English translation with emphasis on the drama, lyric poetry, and the varied contributions of Cicero to literature in the first term, and upon the epic, the satire and the novel in the second semester. (No language credit.) 6 s.h. (E or W) ASSISTANT PROFESSOR ROSE

113-114. **Roman Civilization.**



**115-116. Art and Architecture of Ancient Rome.**

**131-132. History of Rome.**—A survey of the history of the Roman State from its beginnings to the death of Justinian; its expansion; development of its constitution and public administration; social, legal, political and economic problems of perennial life and interest; the background and setting of Christianity's rise and growth. (This course carries no language credit. No knowledge of Latin is required for admission.) **6 s.h. (E)** PROFESSOR ROGERS

**203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.**—A study of this literary genre, and its development by Roman writers; extensive reading of the Roman epics. Not offered if 205-206 is given. **6 s.h. (E)**

**205-206. Roman Drama.**—Select comedies of Plautus and Terence; select tragedies of Seneca. Rapid reading course. **6 s.h. (E)**

**207-208. Roman Philosophy.****209-210. Vulgar Latin: Introduction to Romance Philology.**

**211-212. Roman Oratory.**—A reading course in the history and development of Roman oratory, based for the most part on Cicero's *Brutus* and the *Dialogus* of Tacitus. **6 s.h. (E or W)** PROFESSOR ROGERS

**215. Roman Art and Archaeology.****216. Topography and Monuments of Ancient Rome.**

For other courses numbered in the 200 group, see the *Bulletin of the Graduate School*.

**DEPARTMENTAL MAJOR**

*Prerequisites:* Latin 1-2, 3-4, or acceptable equivalents.

*Major Requirements:* Latin 51-52, 53-54, 65-66, six semester hours in courses numbered 101-108, and in the Senior year six semester hours in courses of the 200-group.

Majors are recommended to elect course 131-132, History of Rome.

Majors who contemplate graduate work are reminded of the necessity of Greek, German, and French for such study.

**LAW COURSES FOR ACADEMIC STUDENTS**

The first-year program of the Law School will include the following courses:

<i>Subject</i>	Fall Semester, 1949	Spring Semester, 1950
	<b>S.H.</b>	<b>S.H.</b>
Chattel Transactions .....	2	2
Contracts .....	4	2
*Estates in Land (including some Future Interests and Landlord and Tenant) .....	1	3
Research and Writing .....	1	1
*Torts (including some Procedure) .....	3	2
Legislation .....	3	
Business Associations I (Agency, Partnership, Introduction to Corporations) .....		2
Criminal Law .....		2
	<hr/> 14	<hr/> 14

For further information, inquiry should be made of the Dean of the School of Law.

\*Torts to be 4 hours first half of first semester, 2 hours second half; Estates in Land to start in middle of first semester as 2 hour course.

## MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR DRESSEL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CARLITZ, RANKIN, ROBERTS, AND THOMAS; ASSISTANT PROFESSORS HICKSON AND PATTERSON; AND ASSISTANTS

Completion of six semester hours of approved work in Mathematics is required of Business and Pre-Medical students, and students working toward the Bachelor of Science degree in Trinity College and the Woman's College. Business students may meet this requirement by completing Mathematics 5 and 16. Pre-Medical students and students working toward the Bachelor of Science degree may meet the requirement by completing Mathematics 5 and 6.

The following program of courses primarily for undergraduates is planned for 1949-50:

Fall term: Mathematics 1, 5, 6, 50, 51, 52, 53, 125, 131, 139, 201.

Spring term: Mathematics 1, 5, 6, 16, 50, 51, 52, 53, 124, 131, 140, 160, 204.

**1. Intermediate Algebra.**—Elementary topics, factoring, fractions, linear equations in one, two, and three unknowns, functions and graphs, exponents and radicals, elements of quadratic equations. Prerequisite: one unit in algebra and one unit in geometry. 3 s.h. (w & e) STAFF

**5. College Algebra.**—Advanced topics in quadratic equations, systems involving quadratics, variation, binomial theorem, progressions, inequalities, theory of equations, determinants, partial fractions, probability. This course and Mathematics 6 may be taken concurrently. Prerequisite: Mathematics 1, or one and one-half units in algebra and one unit in geometry. 3 s.h. (w & e) STAFF

**6. Plane Trigonometry.**—Logarithms, right and oblique triangles, radian measure, graphs of trigonometric functions, inverse trigonometric functions, trigonometric identities and equations. This course and Mathematics 5 may be taken concurrently. Prerequisite: Mathematics 1, or one and one-half units in algebra and one unit in geometry. 3 s.h. (w & e) STAFF

**15. Spherical Geometry and Trigonometry.**—Geometric properties of the sphere, theory and computation for spherical triangles, applications to navigation and astronomy. Prerequisite: Mathematics 5 and 6. 3 s.h. (w) STAFF

**16. Mathematics of Investment.**—Simple and compound interest, annuities certain, amortization, sinking funds, depreciation, evaluation of bonds, life insurance. Prerequisite: Mathematics 5. 3 s.h. (w) STAFF

**50. Plane Analytic Geometry.**—Rectangular and polar coordinates, loci, straight lines, conic sections. This course and Mathematics 51 may be taken concurrently. Prerequisite: Mathematics 5 and 6. 3 s.h. (w & e) STAFF

**51. Calculus I.**—Differentiation of elementary functions, curve tracing, maxima and minima, motion. Prerequisite: Must be preceded or accompanied by Mathematics 50. 3 s.h. (w & e) STAFF

**52. Calculus II.**—Integration of elementary functions, areas, solids of revolution, length of arc, surfaces of revolution, centroids, moments of inertia, pressure, curvature, indeterminate forms. Prerequisite: Mathematics 51. 3 s.h. (w & e) STAFF

**53. Calculus III.**—Introduction to solid analytic geometry, partial differentiation, multiple integrals, series, introduction to differential equations. Prerequisite: Mathematics 52. 3 s.h. (w & e) STAFF

**63. Nomography.**—Theory and actual construction of charts for approximate numerical calculations, theory of the slide rule, design of special purpose slide rules. Prerequisite: Mathematics 50. 3 s.h. (w) PROFESSOR THOMAS

**124. Statistics.**—Averages, moments, dispersion, skewness, kurtosis, correlation, types of distributions, curve fitting, graduation of data to type curves, sampling theory. Prerequisite: Mathematics 53. 3 s.h. (w)

ASSISTANT PROFESSOR HICKSON

**125. Elementary Theory of Equations.**—Permutations, determinants, matrices, linear systems, polynomials and their roots, constructibility, resultants, discriminants, simultaneous equations. Prerequisite: Mathematics 53. 3 s.h. (w)

STAFF

**131. Elementary Differential Equations.**—Solution of elementary types; formation and integration of equations arising in applications. Prerequisite: Mathematics 52. 3 s.h. (w)

STAFF

**139-140. Advanced Calculus.**—Multiple integrals, series, Taylor's theorem, partial differentiation, improper integrals, line integrals, Green's theorem, complex numbers. Prerequisite: Mathematics 53. 6 s.h. (w)

PROFESSOR ELLIOTT

**158. Finite Differences.**—Interpolation formulas, symbolic methods, polynomials of Bernoulli and Euler, numerical differentiation and integration, difference equations. Prerequisite: Mathematics 53. 3 s.h. (w)

PROFESSOR CARLITZ

**160. Elementary Solid Analytic Geometry.**—Planes, straight lines, quadric surfaces. Prerequisite: Mathematics 53. 3 s.h. (w)

STAFF

FOR SENIORS AND GRADUATES

**201. History of Mathematics.**—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. Prerequisite: Mathematics 51. 3 s.h. (E)

PROFESSOR RANKIN

**204. Teaching of Mathematics.**—Fundamental processes, methods of study, mathematical literature, content of courses, applications, use of instruments, correlation of different branches, historical development of secondary school mathematics. Prerequisite: Must be preceded or accompanied by Mathematics 52. 3 s.h. (E)

PROFESSOR RANKIN

**226. Galois Theory of Equations.**—Permutation groups, group of an equation, solvability by radicals. Prerequisite: Mathematics 53. 3 s.h. (w)

PROFESSOR THOMAS

**227-228. Theory of Numbers.**—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: Mathematics 53. 6 s.h. (w)

PROFESSOR CARLITZ

**229-230. Algebraic Numbers.**—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: Mathematics 53. 6 s.h. (w)

PROFESSOR CARLITZ

**235-236. Abstract Algebra.**—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: Mathematics 53. 6 s.h. (w)

PROFESSOR CARLITZ

**250. Higher Geometry.**—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversion. 3 s.h. (w)

PROFESSOR THOMAS

**255-256. Projective Geometry.**—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coordinates, order, continuity, metric properties. Prerequisite: Mathematics 53. 6 s.h. (w)

PROFESSOR THOMAS

**271-272. Introductory Topology.**—Topological properties of Euclidean spaces, set-theoretic and combinatorial methods. Prerequisite: Mathematics 53. 5 s.h. (w)

PROFESSOR ROBERTS

**275. Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral, applications to statistics. Prerequisite: Mathematics 53. **3 s.h. (w)** ASSOCIATE PROFESSOR DRESSEL

**285-286. Mathematical Analysis for Physicists.**—Potentials, Fourier series, Legendre polynomials, Bessel functions, heat equation, wave equation, telegraphic equation, Schrödinger's equation. Prerequisite: Mathematics 53. **6 s.h. (w)** ASSOCIATE PROFESSOR DRESSEL

**291-292. Theory of Functions.**—Limits, implicit functions, power series, double series, Cauchy's theorem and its applications, Riemann surfaces, conformal mapping. Prerequisite: Mathematics 53. **6 s.h. (w)** PROFESSOR THOMAS

#### DEPARTMENTAL MAJOR

For the A.B. degree:

*Prerequisite:* Mathematics 5 and 6.

*Major and Related Work:* 42 s.h.

*Major Requirement:* Mathematics 50, 51, 52, 53, and 12 s.h. in courses in Mathematics numbered above 100, exclusive of Mathematics 201, 204.

*Related Work:* 18-24 s.h. of course work, ordinarily in the following departments: Chemistry, Economics and Business Administration, Philosophy, Physics. This work must be approved by the Department of Mathematics through the Director of Undergraduate Studies of the Department. It may include at most one 6 or 8 s.h. introductory course. The work must be taken in at least two departments.

For the B.S. degree:

*Prerequisite:* Mathematics 5 and 6.

*Major and Related Work:* 48 s.h.

*Major Requirement:* Mathematics 50, 51, 52, 53, and 12 s.h. in courses in Mathematics numbered above 100, exclusive of Mathematics 201, 204.

*Related Work:* 14-24 s.h. of course work in the natural sciences. This work must be approved by the Department of Mathematics through the Director of Undergraduate Studies of the Department. It may include at most one course primarily open to Freshmen. A minimum of 8 s.h. must be in laboratory science. The work must be taken in at least two departments.

#### NAVAL SCIENCE

PROFESSOR EARLE, CAPTAIN, U. S. NAVY; ASSOCIATE PROFESSOR VANARSDALL, COMMANDER, U. S. NAVY; ASSISTANT PROFESSOR KANTNER, MAJOR, U. S. MARINE CORPS; ASSISTANT PROFESSOR COX, LIEUTENANT, U. S. NAVY; ASSISTANT PROFESSOR SMITH, LIEUTENANT, U. S. NAVY; ASSISTANT PROFESSOR ECKHOFF, LIEUTENANT, U. S. NAVAL RESERVE; AND ASSISTANTS

*The Mission* of the Naval Reserve Officers' Training Corps is to provide by a permanent system of training and instruction in essential naval subjects at civil educational institutions a source from which qualified officers may be obtained for the Navy and the Marine Corps, and the Naval Reserve and the Marine Corps Reserve.

*The General Objectives* of the Department of Naval Science in carrying out this mission are:

1. To provide the student with a well-rounded course in basic naval subjects, which, in conjunction with a baccalaureate degree, will qualify him for a commission in the United States Naval Service.

2. To provide certain selected students with such specific training, differentiated in the last part of the course, as required for a commission in the United States Marine Corps.



3. To develop a knowledge of, and an interest in, Naval Customs and Traditions.

4. By precept and example, to develop a capacity for leadership.

5. To supplement the academic work of the school year by two summer cruises, and one summer of aviation and amphibious training.

The Department of Naval Science is an integral part of the University and the courses in Naval Science are on the same level and carry the same credit toward graduation as other courses in the University. The required course in Naval Science consists of 24 semester hours. Satisfactory completion of each semester's work is necessary for continuation in the Unit.

*Additional training.* Regular NROTC students must participate in three periods of summer training duty at Naval Stations or on board ship. Marine officer candidates spend the third summer in indoctrination training at the Marine Corps Schools, Quantico, Virginia. Contract students are required to have one tour of active duty in training afloat or ashore, normally taken between the Junior and Senior years, of three weeks' duration.

*Additional course requirements:*

1. By the end of Sophomore year, every student must have completed satisfactorily one year of college physics.

2. By the end of Sophomore year, every student must have completed satisfactorily mathematics courses through trigonometry.

3. Every student must achieve proficiency in written and oral expression.

4. Physical training will be taken in accordance with college requirements.

5. Each student shall take such instruction in swimming as to qualify him as a First Class Swimmer. Skill in elementary life-saving is required.

*Courses of study and recommended electives.* Any course of study leading to a baccalaureate degree is considered acceptable for an NROTC student to pursue. It is recommended, however, that the major selected be one that lends itself to helping the student become better prepared for the Navy. Examples of such majors are: The fields in engineering, natural science, social science, English, commerce and administration, and foreign languages. It has been found impractical for most students to combine pre-medical or pre-dental training with NROTC at this institution. Recommended electives are:

1. A sequence in mathematics extending through calculus, and including spherical trigonometry.

2. A second year of physical science, such as Advanced Electricity and Elementary Electronics for other than engineering students.

3. A one-year course in Personnel Management and Administration.

4. A one-year course in the Foundations of National Power, or a comparable course approved by the academic authorities.

5. Two years of a foreign language (modern Romance, German, Slavic, or Oriental).

*NROTC Courses*

Standardized titles and designators for courses are established by the Bureau of Naval Personnel. The first digit indicates the year of the course; the second digit (zero for all courses offered here) indicates whether on semester or quarter basis; the third digit indicates the semester or quarter in which offered. Specialized courses for Marine officer candidates are indicated by letter "M" after the designator, and substitute for the basic course of same number.

**NS-101. Naval Orientation (Seamanship, Communications).—3 s.h. (w)**  
STAFF

**NS-102. Naval Orientation (A History of Sea Power since 1775).—3 s.h.**  
(w) STAFF

<b>NS-201. Naval Ordnance and Fire Control.—3 s.h. (w)</b>	<b>STAFF</b>
<b>NS-202. Fire Control and Applied Electronics.—3 s.h. (w)</b>	<b>STAFF</b>
<b>NS-301. Piloting and Navigation.—3 s.h. (w)</b>	<b>STAFF</b>
<b>NS-302. Navigation and Tactics.—3 s.h. (w)</b>	<b>STAFF</b>
<b>NS-302M. The Fundamental Concepts of Military Policy, Power, and Principles.—3 s.h. (w)</b>	<b>STAFF</b>
<b>NS-401. Naval Machinery.—3 s.h. (w)</b>	<b>STAFF</b>
<b>NS-401M. An Analysis of American Battles.—3 s.h. (w)</b>	<b>STAFF</b>
<b>NS-402. Ship Construction and Stability.—3 s.h. (w)</b>	<b>STAFF</b>
<b>NS-402M. Amphibious Operations.—3 s.h. (w)</b>	<b>STAFF</b>

### PHILOSOPHY

ASSOCIATE PROFESSOR LEONARD, EXECUTIVE OFFICER; ASSISTANT PROFESSOR MCLARTY, DIRECTOR OF UNDERGRADUATE STUDIES AND SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS GILBERT, NEGLEY, PATTERSON, WIDGERY; AND ASSISTANT PROFESSOR WELSH

There are, in general, two approaches to the study of philosophy: the historical approach and the systematic approach. Among the introductory courses (those on the "40" and the "90" levels), courses 93 and 94 emphasize the historical approach by tracing the development of philosophic thought from the days of ancient Greece to those of our own century; while the other introductory courses emphasize the systematic study of various problems treated in philosophy. Course 91 is a general introduction, providing a general survey of the whole field of philosophic thought; the other systematic introductions treat problems belonging to specific branches of philosophy.

Any of the above-mentioned introductory courses may properly be taken without previous work in philosophy. In contrast, even though most of the more advanced courses (those on the "100" and the "200" levels) do not have formal prerequisites, students who have no special reason for taking one of them in a given year would generally be well advised to begin their study of philosophy with one of the introductory courses.

**48. Introduction to Logic.**—The general character of logical thinking, with special emphasis on the fundamental principles of valid reasoning. **3 s.h. (E & W)** First and second semesters.

ASSOCIATE PROFESSOR LEONARD AND ASSISTANT PROFESSOR WELSH

**49. Introduction to Ethics.**—An elementary consideration of some of the important moral problems in the light of philosophical tradition and the science of values. Formerly No. 95. **3 s.h. (E & W)**

First semester: ASSISTANT PROFESSORS MCLARTY AND WELSH

Second semester: PROFESSOR GILBERT AND ASSISTANT PROFESSOR WELSH

**91. Introduction to Philosophy.**—This course is intended to acquaint the student with the nature of philosophical problems. Formerly No. 101. **3 s.h. (E & W)**

First semester: PROFESSORS GILBERT AND WIDGERY;  
ASSISTANT PROFESSOR WELSH

Second semester: PROFESSOR PATTERSON AND  
ASSISTANT PROFESSOR WELSH

**93. Introduction to the History of Philosophy: Ancient and Mediaeval.**—A study of the great philosophical thinkers with special reference to the problems of a philosophy of human life. Formerly No. 105. **3 s.h. (E)**

PROFESSOR PATTERSON

**94. Introduction to the History of Philosophy: Modern.**—A study of the great philosophical thinkers with special reference to the problems of a philosophy of human life. Formerly No. 106. 3 s.h. (E & W)

PROFESSOR WIDGERY AND ASSISTANT PROFESSOR McLARTY

**97. Introduction to Political and Social Philosophy.**—A discussion of the fundamental principles of political government and of social organization, with some reference to social values and methods of political activity at the national and international levels. 3 s.h. (E)

PROFESSOR NEGLEY

**98. Social Ideals and Utopias.**—Readings of selected Utopias; analysis of the value-structures and political principles of these ideal societies. 3 s.h. (E)

PROFESSOR NEGLEY

**99. Fundamentals of Christian Morality: An Introduction to Christian Ethics.**—Modes and ideals of life as exemplified in Christian history and expressed in Christian literature. Formerly No. 119. 3 s.h. (E) First and second semesters.

ASSISTANT PROFESSOR McLARTY

**103. Logic.**—Continuation of 48. Application of the principles of logic. The nature of deductive systems. Prerequisite: Philosophy 48. 3 s.h. (E)

ASSOCIATE PROFESSOR LEONARD

**104. Scientific Methodology.**—A survey of the techniques and methods used for the attainment of knowledge in mathematics, the sciences, history and philosophy. 3 s.h. (E)

ASSOCIATE PROFESSOR LEONARD

**108. Philosophical Ideas in Ancient Greek and Roman Culture.**—A study of selections from non-philosophical literature and of some other aspects of Greco-Roman culture, with attention to problems requiring philosophical discussion. 3 s.h. (E)

ASSISTANT PROFESSOR McLARTY

**114. Seventeenth-Century Philosophy, with Special Reference to Spinoza.**—3 s.h.

PROFESSOR GILBERT

**116. The Development of Philosophy in America.**—A historical and critical survey of the leading philosophical movements from Colonial times to the present. Formerly No. 96. 3 s.h. (E) First and second semesters.

PROFESSOR NEGLEY

**117. The History of Ethics.**—Theories of morality from Socrates to the present time. Formerly No. 226. 3 s.h. (E)

PROFESSOR NEGLEY

**121. The Philosophy of Plato.**—A general introduction, to acquaint the student with what Plato had to say about the problems of thought and life. 3 s.h. (E)

ASSISTANT PROFESSOR McLARTY

#### FOR SENIORS AND GRADUATES

**201-202. The Philosophy of Art.**—Analysis with the aid of examples of general terms used in the discussion of art. References to recent aesthetic theories. 6 s.h. (E)

PROFESSOR GILBERT

**203. Contemporary Ethical Theories.**—Reading and discussion of twentieth-century American and British moralists. 3 s.h. (E)

PROFESSOR NEGLEY

**205. The Philosophy of History.**—An enquiry into the logic and methodology of the knowledge of history and into the metaphysical implications of history. 3 s.h. (W)

PROFESSOR WIDGERY

**208. Political Philosophy.**—Analysis of the structure of social organization, with particular reference to the function of legislation in democratic politics. 3 s.h. (E)

PROFESSOR NEGLEY

**209-210. The Philosophy of Religion.**—A critical consideration of the empirical data of religion and the constructive development of a modern philosophy of religion. **6 s.h. (w)** PROFESSOR WIDGERY

[In alternate years—offered in 1949-50]

**211. History of Ancient Philosophy.**—An advanced course with textual study of the most important philosophical works. **3 s.h. (E)**

PROFESSOR PATTERSON

**212. History of Modern Philosophy.**—An advanced course with textual study of the most important philosophical works. **3 s.h. (E)**

PROFESSOR PATTERSON

**213-214. History of Aesthetics.**—Theories of art and beauty from Pythagoras to Croce. **6 s.h. (E)** PROFESSOR GILBERT

**217. The Philosophy of Aristotle.**—Prerequisite: course 93 or 211. **(E)**

ASSISTANT PROFESSOR McLARTY

**218. Mediaeval Philosophy.**—A study of the philosophy of the Middle Ages, with special attention to selected texts from the works of leading Christian, Jewish and Arabian philosophers. **3 s.h. (E)** PROFESSOR PATTERSON

**223. Contemporary Philosophy.**—A study of the leading philosophical movements in Europe and America in the last fifty years. **3 s.h. (E)**

PROFESSOR PATTERSON

**231. Philosophy of Science I.**—A historical and critical survey of the basic philosophical ideas underlying the development of modern science. **3 s.h. (E)** ASSOCIATE PROFESSOR LEONARD

**232. Philosophy of Science II.**—Philosophical implications of the methods employed in modern science. Prerequisite: 3 s.h. of Logic (48 or 241) or the permission of the instructor. **3 s.h. (E)** ASSOCIATE PROFESSOR LEONARD

**236. Oriental Philosophy I.**—Chinese philosophy. **3 s.h. (w)**

PROFESSOR WIDGERY

**238. Oriental Philosophy II.**—Indian philosophy. **3 s.h. (w)**

PROFESSOR WIDGERY

**241. Logic.**—Fundamental principles of valid deductive reasoning. **3 s.h. (E)** ASSOCIATE PROFESSOR LEONARD

**242. Scientific Methodology.**—A survey of the methods used in the various natural and social sciences. **3 s.h. (E)** ASSOCIATE PROFESSOR LEONARD

#### DEPARTMENTAL MAJOR

*Prerequisite:* Philosophy 48, but this course may be taken concurrently with courses that count toward the major.

*Major Requirements:* Twenty-four semester hours in philosophy. The program must include:

3 s.h. in the history of ancient philosophy (Course 93 or 211).

3 s.h. in the history of modern philosophy (Course 94 or 212).

Philosophy 117 (waived for students who take Course 49).

6 s.h. of work in the 200 series.

The prospective major should consult the director of undergraduate studies.



## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS GORDY, NEWSON, NORDHEIM AND SPONER; ASSOCIATE PROFESSOR SMITH; ASSISTANT PROFESSOR GREULING; MISS LAROE; MESSRS. LEWIS AND SEEVERS; AND ASSISTANTS

A student wishing to major in physics should arrange to complete the necessary mathematics as soon as possible.

**1-2. Introductory Physics.**—This course traces historically and experimentally the development of the important principles of physics. This course is open to Freshmen, Sophomores and Juniors and meets the general science requirement. Three hours of recitation and one two-hour laboratory each week. **8 s.h.** (W & E) PROFESSORS CARPENTER AND HATLEY AND STAFF; AND ASSISTANTS

**51-52. General Physics.**—This course treats the basic principles of general physics in a more quantitative manner than Physics 1-2. It is designed for Sophomores and Juniors, and meets in a thorough way the physics requirement for entrance into the study of either medicine or engineering, and is well suited for the general science student. A limited number of Freshmen who present physics for entrance and who are taking the required mathematics concurrently may be admitted by permission of the instructor. This course is not open for credit for students who have completed Physics 1-2. Four lecture-recitations and one three-hour laboratory period each week.

Prerequisite: Mathematics 5-6 or equivalent (Mathematics 6 may be taken concurrently). **10 s.h.** (W) PROFESSORS HATLEY AND CARPENTER AND STAFF; AND ASSISTANTS

**101-102. Intermediate Physics.—Mechanics and Heat.**—This course covers in a thorough manner the elements of mechanics and heat. Three recitations and one three-hour laboratory period per week.

Prerequisites: Physics 1-2 or 51-52 or equivalent, and a course in differential and integral calculus which may be taken concurrently. **8 s.h.** (W) PROFESSOR NIELSEN

**151-152. Intermediate Physics.—Electricity and Optics.**—The elements of electricity and magnetism and elementary electromagnetic theory leading up to optics. Geometrical and physical optics. Three recitations and one three-hour laboratory per week.

Prerequisites: Physics 101-102 or equivalent work approved by the instructor and differential and integral calculus. **8 s.h.** (W) PROFESSORS NIELSEN AND HATLEY

A course in general college physics, Physics 101-102 or equivalent validated by examination, and a course in differential and integral calculus are prerequisites to all courses numbered 200 and above.

**201-202. Mechanics.**—The fundamental principles of statics and the dynamics of particles and rigid bodies. Three recitations each week. **6 s.h.** (W) ASSOCIATE PROFESSOR SMITH

**203-204. Electricity and Magnetism.**—Fundamentals of electricity and magnetism. Electrostatics and magnetostatics. Direct current circuits and networks—bridges, potentiometers, galvanometers, alternating current circuits and networks. Electromagnetic waves. **6 s.h.** (W) ASSOCIATE PROFESSOR SMITH

**205. Spectroscopy.**—The theory of optical instruments and a discussion of spectroscopic laws and of information obtained by spectroscopic methods. Three lectures and one three-hour laboratory each week. **4 s.h.** (W) PROFESSOR SPONER

**207. Sound and Acoustics.**—Theory of vibrating systems. Mechanical-electrical-acoustical analogies. Emission and reception of sound, speakers and microphones. Transmission, reflection, refraction, diffraction and absorption of sound. Acoustical applications. Two lectures and one three-hour laboratory each week. **3 s.h. (w)**  
**PROFESSOR NIELSEN**

[Not offered in 1949-50]

**213-214. Contemporary Physics.**—A course which covers the fundamental concepts and the experimental basis of modern physics. Three lectures each week. **6 s.h. (w)**  
**ASSISTANT PROFESSOR GREULING**

**217-218. Advanced Physics Laboratory.**—Measurements involving the fields of mechanics, electricity, magnetism, heat, sound, optics and modern physics. **2-6 s.h. (w)**  
**THE STAFF**

**219. Electron Tubes and Their Application.**—Fundamentals of electron tubes. Motion of charged particles, space charge, gaseous conduction. Electron tube circuits. Three hours of lecture and one three-hour laboratory per week. **4 s.h. (w)**  
**ASSOCIATE PROFESSOR SMITH**

**220. Electronic Circuit Analysis.**—Linear and non-linear circuit analysis, electric oscillations, operation of filters, Fourier analysis of wave phenomenon, coupling in electrical circuits. **4 s.h. (w)**  
**PROFESSOR GORDY OR ASSOCIATE PROFESSOR SMITH**

**221-222. Introduction to Theoretical Physics.**—Lectures and problems on the fundamental principles and mathematical theory of physics, constituting a thorough foundation for subsequent specialization and more intensive study. **8 s.h. (w)**

**225-226. Elementary Investigations.**—The aim of this course is to provide training in the laboratory and library methods of physical research. Properly qualified students may conduct elementary investigations under the supervision of a member of the Staff. **3-6 s.h. (w)**  
**THE STAFF**

#### DEPARTMENTAL MAJOR

**A. For the A.B. degree:**

*Prerequisites:* Physics 1-2 or 51-52 or equivalent, and Mathematics 5-6.

*Major Requirements:* Eighteen to twenty-four semester hours in physics including Physics 101-102 and Physics 151-152 or equivalent.

**B. For the B.S. degree:**

*Prerequisites:* Physics 1-2 or 51-52 or equivalent, Chemistry 1-2 and Mathematics 5-6 or equivalent.

*Major Requirements:* Not less than twenty-four semester hours in physics including Physics 101-102 and Physics 151-152 or equivalent.

#### DEPARTMENTAL HONORS PROGRAM

*Prerequisites:* Physics 1-2 or 51-52 or equivalent and 101-102 or equivalent. Mathematics six semester hours and Chemistry 1-2.

*Honors Program:* Physics 151-152 or equivalent and 12 semester hours of physics in the 200 group; Mathematics 131; electives: twenty-five semester hours or enough to satisfy the requirements for graduation, subject to the approval of the Departmental Honors Committee. Of these, at least six semester hours must be either a course in Geology, Botany or Zoology, or an advanced course in Chemistry or Mathematics.

In addition, the student will arrange with his adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work and in general will constitute a survey of the classical and modern aspects of physics for which ten semester hours credit will be allowed.

At the end of both Junior and Senior years, the student will be given both an oral and a written examination in the field of physics.

## POLITICAL SCIENCE

PROFESSOR ROBERT S. RANKIN, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR COLE, DIRECTOR OF GRADUATE STUDIES; PROFESSORS WILSON AND VON BECKERATH; LECTURER ELLIS; ASSOCIATE PROFESSORS HALLOWELL AND VAN WAGENEN; ASSISTANT PROFESSORS HANSON, RICHARDS AND SIMPSON; DR. CHEEK; MESSRS. DEENER AND HATHORN

**21. Principles of Government.**—An introductory study of the principles and problems of government. Open to Freshmen as an elective. 3 s.h. (w & E)  
ASSOCIATE PROFESSOR VAN WAGENEN

**22. Governmental Problems in International Relations.**—A study of international politics as seen in current problems of international relations. Open to Freshmen as an elective. 3 s.h. (w & E)

ASSOCIATE PROFESSOR VAN WAGENEN

**61-62. American Government and Politics.**—A study of the American political system, including the organization and functioning of national, state, and local government in the United States. 6 s.h. (w & E)

PROFESSOR RANKIN; DR. ELLIS; ASSOCIATE PROFESSOR HALLOWELL;  
ASSISTANT PROFESSORS RICHARDS, SIMPSON, HANSON;  
DR. CHEEK; MR. DEENER, MR. HATHORN

**63-64. Modern Constitutional Government.**—Principles and institutions of modern constitutional government, the first semester being devoted to American government, the second to government outside the United States. 6 s.h.

ASSOCIATE PROFESSOR HALLOWELL; DR. ELLIS AND  
ASSISTANT PROFESSOR HANSON

Course 61-62 or 63-64 is ordinarily taken before any advanced course in political science. A student who has not had either of these courses may take an advanced course in the Department with the approval of the instructor giving the advanced course. No student may receive credit for both course 61-62 and course 63-64.

**111. Survey of Far Eastern Politics.**—An introductory survey of international politics in Eastern Asia and the Western Pacific; the rise of Japan as a modern state; China's struggle for political unity, independence and national development. 3 s.h.

DR. ELLIS

**112. Contemporary Problems in Far Eastern Politics.**—The impact of World War II and its aftermath on political institutions and economic structures in the Pacific area. 3 s.h.

DR. ELLIS

**121-122. Elements of International Relations.**—Analysis of the operations of international politics, of the foundations of national power, and of international organization, with emphasis upon attempted solutions of the central problem of international security.

ASSOCIATE PROFESSOR VAN WAGENEN

**125. American Political Parties and Practical Politics.**—A study of the historical development, organization, and methods of political parties in the United States. 3 s.h.

ASSISTANT PROFESSOR SIMPSON

**136. Major European Governments.**—A survey of the governments of the major European countries. 3 s.h.

PROFESSOR COLE

**141. Public Regulation.**—An introduction to the administrative process, emphasizing the nature, types, and techniques, of public activity; and the methods and problems of protecting the public interest. 3 s.h.

ASSISTANT PROFESSOR RICHARDS

**146. Legislation.**—A study of the legislative process with attention to procedure, methods, techniques, delegation of discretion, and the use of controls. 3 s.h.

ASSISTANT PROFESSOR SIMPSON



**151. Latin-American Political Institutions.**—A study of Latin-American governments during the colonial period. 3 s.h. DR. ELLIS

**152. Latin-American Political Institutions.**—A study of Latin-American governments during the national period, particular attention being given to the political institutions of Argentina, Chile, Colombia, Uruguay, Brazil and Mexico. 3 s.h. DR. ELLIS

**174. Politics and Economics.**—An analysis of the influence of politically dominant forces and ideologies upon economic policies in societies of principal Western countries since the seventeenth century. 3 s.h.

PROFESSOR VON BECKERATH

**207. American Constitutional Law and Theory.**—A study of leading principles of American government, as developed through judicial interpretation of the Constitution. 3 s.h.

PROFESSORS WILSON AND RANKIN

**209. State and Local Government in the United States.**—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. 3 s.h.

PROFESSOR RANKIN

**211. Political Institutions of the Far East.**—A study of the governmental systems of Japan, Korea, and China from the Chou Dynasty to the present. 3 s.h.

**212. International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h.

**221. International Public Organization.**—A study of the structure and functioning of the United Nations system and of selected organizations outside that system. 3 s.h.

ASSOCIATE PROFESSOR VAN WAGENEN

**223. Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h.

PROFESSOR WILSON

**224. Modern Political Theory.**—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h.

PROFESSOR WILSON AND ASSOCIATE PROFESSOR HALLOWELL

**225. Comparative Government.**—A comparative study of modern political institutions with particular attention to European constitutional government and politics. 3 s.h.

PROFESSOR COLE

**226. Comparative Government.**—A comparative study of modern political institutions with particular attention to European authoritarian and dictatorial government and politics. 3 s.h.

PROFESSOR COLE

**227-228. International Law.**—Elements of international law, particularly as interpreted and applied by the United States. 6 s.h.

PROFESSOR WILSON

**229. Recent and Contemporary Political Theory.**—A study of the more significant contributions to political theory from 1850 to the present. 3 s.h.

ASSOCIATE PROFESSOR HALLOWELL

**230. American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. 3 s.h.

PROFESSOR RANKIN

**231. American Political Theory.**—An analysis of the main currents in American political thought from colonial beginnings to the present day, with emphasis upon the development of liberalism in America. 3 s.h.

ASSOCIATE PROFESSOR HALLOWELL



**235. The British Commonwealth.**—An analysis of the political relationships between the members of the British Commonwealth and a comparative study of the governments of the British Dominions, with particular reference to Canada. 3 s.h.  
 PROFESSOR COLE

**241-242. The Administrative Process.**—The function and theory of organization, delegated legislation, administrative adjudication, the control of administration, and special problems in economic balancing and proprietary activities. 6 s.h.

**244. Administrative Law.**—The law of the administrative process, including the nature of regulatory authority, the status and liability of public officers, administrative tribunals and judicial review of administrative action. 3 s.h.

**252. Spanish-American Constitutionalism.**—A comparative study of the nature, sources, and use of political authority in the constitutional law of Argentina, Chile, Colombia, and Uruguay. 3 s.h.

**271. Sociopolitics and Capitalism.**—Labor and labor policies in Western Europe and the United States in the nineteenth and twentieth centuries; "social security" during and after the war. 3 s.h.  
 PROFESSOR VON BECKERATH

**291. Municipal Government.**—A study of problems relating to the structural system and activities of municipalities in the United States. 3 s.h.  
 PROFESSOR RANKIN AND ASSISTANT PROFESSOR HANSON

**292. Municipal Administration.**—A study of principles and methods of municipal administration in the United States. 3 s.h.  
 PROFESSOR RANKIN AND ASSISTANT PROFESSOR HANSON

**DEPARTMENTAL MAJOR**

*Prerequisite:* Political Science 61-62 or 63-64.

*Major Requirements:* Eighteen semester hours of work in the Department above courses 61-62 or 63-64, including at least nine semester hours in Senior-Graduate courses.

**PSYCHOLOGY**

PROFESSOR ADAMS, CHAIRMAN; MR. S. JAMES GOFFARD, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS DAI, KUDER, LUNDHOLM, RHINE AND ZENER; ASSOCIATE PROFESSORS BANHAM AND KOCH; ASSISTANT PROFESSORS MCHUGH AND REICHENBERG-HACKETT; MESSRS. BEVAN, COHEN, AND OHLSON

**91-92. General Psychology.**—An introduction to the facts, principles, and problems of normal adult psychology through a study of psychological methods as applied to motivation, emotions, perception, sensation, thinking, memory, learning, individual differences, and personality. 6 s.h.

ASSOCIATE PROFESSOR KOCH; ASSISTANT PROFESSORS MCHUGH, REICHENBERG-HACKETT; MESSRS. BEVAN AND GOFFARD

**96. Applied Psychology.**—Applications of psychology to problems of personnel selection, industrial efficiency, advertising and selling, clinical work, detection and treatment of delinquents and criminals, and other problems of practical interest. 3 s.h.  
 MR. OHLSON

**104. Comparative Psychology.**—An examination of the bearing upon general psychological theory, especially in the fields of motivation, learning, development, of observations and experimental investigations of animal behavior. 3 s.h.  
 PROFESSOR ADAMS

**106a. Abnormal Psychology.**—A systematic presentation of the psychology of functional mental disorders with emphasis on its bearing upon general psychological theory. 3 s.h.  
 PROFESSOR LUNDHOLM

**106b. Abnormal Psychology.**—A general survey of the field of psychopathology including history, classification and description of the major psychoses and psychoneuroses, an introduction to pertinent psychodynamics and principles of psychotherapy. 3 s.h.

MR. OHLSON

**107. Psychological Analysis of Prominent Characters in Literature.**—Introducing a method of extracting from literature and from the cultural document at large valid generalizations concerning human nature. This course is designed for students who are interested in reading classical literature. Seniors, in case they should have taken Psychology 203, are not eligible for this course. 3 s.h.

PROFESSOR LUNDHOLM

**109. Introductory Social Psychology.**—Psychological bases of human and animal societies; effects of different societies on personality development; pedagogical implications. 3 s.h.

**111. Advanced General Psychology.**—A more intensive study of several selected problem areas in the field of general psychology, special emphasis on experimental methods and findings in the areas considered. 3 s.h.

MR. GOFFARD

**112. Advanced General Psychology: Action, Motivation, Emotion.**—A consideration of the psychological, physiological, and social factors involved in the motivation of behavior. 3 s.h.

**115. Psychology of Personality.**—A study of the historical and contemporary methods of investigating personality; critical evaluation of findings in psychology and other sciences as they relate to a theory of personality; survey of systematic approaches to personality and contemporary methods of measuring personality traits. 3 s.h.

PROFESSOR RHINE AND ASSISTANT PROFESSOR  
REICHENBERG-HACKETT

**116. Psychology of Adjustment.**—An application of the principles and findings of normal and abnormal psychology as these relate to adjustment of the normal individual in our changing society; a brief discussion of current socio-cultural trends significant for individual adjustment and a survey of the principles of mental hygiene. 3 s.h.

ASSISTANT PROFESSOR REICHENBERG-HACKETT

Not given for major credit in Psychology.

Not open to students who have had Education 68.

**119. Elementary Laboratory Psychology.**—Laboratory applications of the principles of scientific methods to specific problems in psychology with particular emphasis upon the experimental techniques most appropriate for obtaining, analyzing, and presenting relevant data. Laboratory and lecture; open to psychology majors only and by permission of the instructor. 4 s.h.

MR. GOFFARD

**120. Basic Statistical Techniques in Psychology.**—The application of the more elementary statistical techniques to the collection, analysis, and interpretation of data in psychological research. Open only to psychology majors except by permission of the instructor. 3 s.h.

MR. GOFFARD

**121. Child Psychology.**—A detailed study of the practical problems of infancy and early childhood, with special emphasis upon learning, emotional development, social adjustment, and modern conceptions and methods of child training and guidance. 3 s.h.

ASSISTANT PROFESSOR MCHUGH

**126. Adolescent Psychology.**—The mental, social and emotional development of adolescence and youth will be studied, special attention given to such topics as interests, motivation, home problems, sex differences, recreation, delinquency, and development for citizenship. Prerequisite: Psychology 121 or Education 8 or 88. 3 s.h.

ASSISTANT PROFESSOR MCHUGH

**130. Elementary Clinical Psychology.**—An introduction to the problems, principles and methods of clinical psychology as an area of application and of research. This course, at a pre-professional level, does not train or qualify the student for the practice of specific techniques in clinical psychology. 3 s.h.

MR. OHLSON

**203. Dynamic Psychology: Conation and Our Conscious Life.**—A systematic presentation of the psychology of adult human achievements, adaptive as well as creative, with emphasis upon the significance for these endeavors of the acts of experiencing. Students who have taken Psychology 107 are not eligible for this course. 3 s.h.

PROFESSOR LUNDHOLM

**204. Motivation and Learning.**—Psychological and biological conditions of the operation, modification, organization of motivational systems. 3 s.h.

PROFESSOR ZENER

**206. Social Psychology.**—Kinds of membership character; psychology of social movements; propaganda; revolutions; nationalism; war. 3 s.h.

**207. Psychology of Memory, Thinking, and Perceiving.**—A study of thinking, remembering, and perceiving with reference to the basic processes involved and their determining conditions, with emphasis upon organization, meaning and motivation. 3 s.h.

PROFESSOR ZENER

**209. Experimental Methods in Human Psychology.**—A study of methods for the control and recording of essential variables in human psychological situations, with consideration of the relation of experimental techniques to problem formulation and psychological theory. Laboratory and lectures. 4 s.h.

PROFESSOR ZENER

**212. Physiological Psychology.**—A study of the physiological factors and processes underlying such basic psychological events as perception, adaptive and symbolic behavior, memory, needs and emotions. Presupposes Introductory Zoology and preferably an additional course dealing with the structure and functioning of the nervous system. 3 s.h.

PROFESSOR ZENER

**215. Developmental Psychology.**—Hypothetico-deductive method applied to the theory of personality structure and the changes it undergoes in development; learning, conflict, character, intelligence, developmental crises, etc.; evaluation of researches on personality dynamics, lectures, readings, motion picture demonstrations. 3 s.h.

PROFESSOR ADAMS

**219. Psychometrics.**—Lectures, demonstration and practice in the use of standard scales of intelligence for children and adults; language, performance and personality tests; rating scales; individual and group tests; interpretation and evaluation of results; methods of reporting test data. 3 s.h.

ASSOCIATE PROFESSOR BANHAM

**223. Abnormal Psychology.**—A systematic presentation of the psychology of functional mental disorders with emphasis on its bearing upon general psychological theory. This course constitutes a slightly more technical survey of the same topic matter as Psychology 106. Seniors who have taken Psychology 106 are not eligible for Psychology 223. 3 s.h.

PROFESSOR LUNDHOLM

**226. Psychology: Historical and Theoretical.**—Systems in contemporary psychology will be examined as developments from their effective historical context, and critically evaluated in terms of underlying methodological presuppositions, formulation of basic problems and functional expression in actual research and tactical application. 3 s.h.

PROFESSOR ZENER

**228. Psychology of Belief.**—3 s.h.

PROFESSOR LUNDHOLM

**231-232. Introduction to Research.**—Restricted to Senior psychology majors with at least a B average in psychology who have completed Psychology 119 and Psychology 120. Before registration an outline of the project must be



submitted for written approval by a departmental committee and by the staff member to whom it assigns the supervision of the research.

PROFESSORS ADAMS, LUNDHOLM, RHINE, ZENER; ASSOCIATE PROFESSORS BANHAM AND KOCH; ASSISTANT PROFESSORS MCHUGH AND REICHENBERG-HACKETT

**236. Theoretical Psychology.**—This course will be devoted to the analysis of techniques of theory construction in psychology. The discussion of these methodological issues will be co-ordinated with the analysis of concrete formulations in contemporary psychological theory. **3 s.h.**

ASSOCIATE PROFESSOR KOCH

**241. Introduction to the Rorschach Test.**—Lectures, demonstrations and practice in the administration of the Rorschach test, to develop proficiency in use of the scoring system; practice in collecting and reporting Rorschach material. **3 s.h.**

ASSISTANT PROFESSOR REICHENBERG-HACKETT

**242. Advanced Study of the Rorschach Test.**—Theory and practice of interpretation of Rorschach test results of mentally disordered persons and their implications for personality theory. An analytic and comparative survey of the literature. The Rorschach test as research instrument and as problem. Prerequisite: Psychology 241 or equivalent. **3 s.h.**

ASSISTANT PROFESSOR REICHENBERG-HACKETT

**254. Experimental Psychopathology.**—Brief introduction to experimental method; survey of experimental techniques; findings in psychopathology. Emphasis placed on developing in the student a working knowledge of experimental design in the study of dynamics of abnormal behavior. **3 s.h.**

**265. Fundamental Statistical Procedure in Psychology.**—A course in the application of the more common statistical principles and techniques used in psychological research. Measures of central tendency, variability, and correlation, and the elements of sampling theory are studied with illustrative data from various problem areas in psychology. **3 s.h.**

PROFESSOR KUDER

**266. Advanced Statistics of Psychological Investigation.**—A study of various more advanced statistical principles and procedures employed in psychological research. The course includes the topics of multiple and partial correlation, analysis of variance as employed in controlled experimentation, measures of correlation other than product-moment correlation, reliability and validity of measures, and fundamental concepts of factor analysis. Prerequisite: Psychology 265 or its equivalent. **3 s.h.**

PROFESSOR KUDER

#### DEPARTMENTAL MAJOR

*Prerequisite:* Psychology 91-92 or equivalent.

*Major Requirements:* 24 s.h. of work in the department including Psychology 91-92, Psychology 119 (Elementary Laboratory), one semester of psychological statistics, and at least 6 s.h. in Senior graduate courses. Related work must include Zoology I and 2 or equivalent in biology, and 6 s.h. of sociology or anthropology.

#### RELIGION

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS CANNON, HICKMAN, SPENCE, AND STINESPRING; ASSOCIATE PROFESSORS CRUM AND DICKS; ASSISTANT PROFESSORS PHILLIPS, SPENCE, AND YOUNG; DR. BROWNLEE; MESSRS. JONES AND POPE

The minimum uniform requirement in Religion may be fulfilled by completing six semester hours in any of the following courses: 1-2, 51-52, 91, 101, 103, 114, 181-182, 183. Classes in these courses are limited to fifty students.



**1. The English Bible.**—Survey of the contents of the historical and prophetic books of the Old Testament with particular reference to the literary, historical, and religious values. Required of all students majoring in religion and open to others as an elective in the Freshman year. **3 s.h.** (E & W) ASSISTANT PROFESSOR SPENCE; DR. BROWNLEE; MESSRS. JONES AND POPE

**2. The English Bible.**—Study of the Psalms, Wisdom Literature, and the literature of the New Testament with special attention given to the literary, historical, and religious values. Required of all students majoring in religion and open to others as an elective in the Freshman year. Although Religion 1 is not a prerequisite, it will be an aid to the student to complete 1 before taking 2. **3 s.h.** (E & W) ASSISTANT PROFESSOR SPENCE; DR. BROWNLEE; MESSRS. JONES AND POPE

**51. The History of the Hebrew People.**—A study of the Hebrew people that gives attention to their political history, their religious and social institutions, their literary development, with special reference to their contributions to civilization. For Sophomores; not open to students who have had Religion 1. **3 s.h.** (E & W) PROFESSOR MYERS; ASSISTANT PROFESSOR SPENCE; DR. BROWNLEE; MESSRS. JONES AND POPE

**52. New Testament Life and Literature.**—After a rapid survey of the Psalms and Wisdom Literature, a study of the literature of the New Testament is made with attention given to its historical setting and religious values. For Sophomores; not open to students who have had Religion 2. Although not a prerequisite, students will find either Religion 1 or 51 an aid to the work in 52. **3 s.h.** (E & W) PROFESSOR MYERS; ASSISTANT PROFESSORS PHILLIPS AND SPENCE; DR. BROWNLEE; MESSRS. JONES AND POPE

**91. Fundamentals of Christian Morality: An Introduction to Christian Ethics.**—(Identical with Philosophy 99.) **3 s.h.** ASSISTANT PROFESSOR McLARTY

**101. The Social Teachings of the Prophets and Jesus.**—A study of the social teachings of the Old Testament prophets and of the social ideas of Jesus as they appear in the four gospels. Not open for credit to students who take Religion 103 or 114. Either semester. **3 s.h.** (w) ASSISTANT PROFESSOR PHILLIPS

**102. The Christian Church in the Social Order.**—This course will deal with the Christian Church in its service to society and its relation to other social institutions. **3 s.h.** (w) PROFESSOR —

**103. The Prophets of the Old Testament.**—In this course a study is made of the history and nature of prophecy, with particular attention being given to the messages of the outstanding pre-exilic literary prophets. Not open for credit to students who take Religion 101. **3 s.h.** (E & W) PROFESSOR MYERS

**104. The History and Religion of the Jews to the Roman Period.**—The work in this course is based largely on exilic and post-exilic prophecy, the Wisdom Literature, and the earlier apocalyptic and apocryphal literature. **3 s.h.** (w) PROFESSOR MYERS

**114. The Life and Teachings of Jesus.**—This course considers the period in which Jesus lived, the record of his life, and the meaning of his teachings as recorded in the Synoptic Gospels. Not open for credit to students who take Religion 101. **3 s.h.** (E & W) PROFESSOR MYERS

**163. Religious Education of Children.**—An analysis of the religious life, interests and capacities of children; including a study of the problems, objectives, methods, and materials involved in teaching religion to children. Directed to the needs of the lay workers in the church. **3 s.h.** (E) ASSISTANT PROFESSOR SPENCE

**167. Contemporary Religious Problems.**—A course that deals with the main interests of life from the standpoint of their social and religious significance. 3 s.h. ASSISTANT PROFESSOR PHILLIPS

**168. Masterpieces of Great Religious Literature.**—This course is devoted to the religious thought in the literature from the second to the twentieth centuries, with special attention given modern religious poetry. 3 s.h. PROFESSOR SPENCE

**169. Character Problems.**—The psychology of adolescence and the problems of youth in character building, with attention to the character education agencies in local communities. 3 s.h. (E & W) ASSOCIATE PROFESSORS CRUM AND DICKS

**170. Religion and the Family.**—A study of marriage and American home life with emphasis upon ethical and religious aspects. Not open to students who take Sociology 250. 3 s.h. (E & W) ASSOCIATE PROFESSOR CRUM

**171. Introduction to the Psychology of Religion.**—A study of the genesis and growth of religious experience, with special emphasis upon the experiences of youth. 3 s.h. PROFESSOR HICKMAN

**181. The Nature and Early Development of Religion.**—Introduction to the early history of religion, the beliefs and practices of the more primitive peoples, and the religious life of the ancient world. For Seniors only. Not open for credit to students who take Religion 183. 3 s.h. (W) PROFESSOR CANNON

**182. Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. For Seniors only. Not open for credit to students who take Religion 183. 3 s.h. (W) PROFESSOR CANNON

**183. The Religious and Social Contributions of the World's Great Religions.**—A survey of the world's great religions to discover and appraise their cultural and religious values. No open for credit to students who take Religion 181 or 182. 3 s.h. (W) PROFESSOR SPENCE

**193. A Study of Materials Suitable for Public School Courses in Religion and Ethics,** including the English Bible and other religious literature. 3 s.h. (E) ASSOCIATE PROFESSOR CRUM

**201-202. First Hebrew.**—A study in the forms of the Hebrew language with reading of selected Old Testament narratives. 6 s.h. (W) PROFESSOR STINESPRING AND MR. POPE

**207-208. Second Hebrew.**—Samuel or Kings the first semester and Isaiah the second. 6 s.h. (W) PROFESSOR STINESPRING AND MR. POPE

**211-212. Hellenistic Greek.**—Designed for beginners to enable them to read the Greek New Testament. 6 s.h. (W) ASSISTANT PROFESSOR YOUNG

**265. Religious Drama.**—A historical survey of the relation between religion and drama, a study of the uses and underlying principles of religious drama, and a critical examination and interpretation of selected dramatic productions. 3 s.h. (W) PROFESSOR SPENCE

**268. Religious Drama Construction and Production.**—Project work in the creation and production of religious drama and pageants. Practice in the selection, staging, lighting, and direction of religious plays. Construction of dramatic programs of worship. 3 s.h. (W) PROFESSOR SPENCE

#### DEPARTMENTAL MAJOR

*Prerequisite:* Religion 1-2, or 51-52.

*Major Requirements:* A major in the Department of Religion consists of eighteen semester hours of work, exclusive of courses primarily for Freshmen,

selected with the approval of the instructor under whose supervision the student does his major work. Six of the eighteen semester hours must be in courses with biblical content.

### ROMANCE LANGUAGES

PROFESSOR JORDAN, CHAIRMAN; PROFESSOR WALTON, DIRECTOR OF UNDERGRADUATE STUDIES IN FRENCH; ASSOCIATE PROFESSOR DAVIS, DIRECTOR OF UNDERGRADUATE STUDIES IN SPANISH; ASSISTANT PROFESSOR DOW, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH; MR. PRATT, SUPERVISOR OF FRESHMAN INSTRUCTION IN SPANISH; PROFESSOR COWPER; ASSOCIATE PROFESSOR CASTELLANO; ASSISTANT PROFESSORS ARCHIE AND RAYMOND; DR. LLERENA; MESSRS. DEMOREST, HAMILTON, AND NAJAM; MRS. CASTELLANO, MRS. DOW, MRS. GAULT, MISS MATTHEWS

All courses numbered below 100 are designed for the degree requirements of the general student. They aim to develop a sound reading knowledge, along with a reasonable facility in speaking and writing. The courses numbered above 100 provide more intensive instruction in the language, and systematic study of the standard literature in French and Spanish. Prospective teachers will find in course 118 a treatment of current methods in the teaching of French and Spanish.

Students who, by reason of foreign residence, have had special opportunities in French or Spanish must be classified by the Director of Undergraduate Studies.

#### FRENCH

**1-2. Elementary French.**—Introduction to pronunciation. Essentials of grammar, emphasis on reading in the second semester. **6 s.h. (w & e)**

PROFESSORS COWPER AND WALTON; ASSISTANT PROFESSORS ARCHIE, DOW AND RAYMOND; MESSRS. DEMOREST AND NAJAM

**3-4. Intermediate French.**—Standard literary texts (short story, novel, drama) are used as the basis of intensive drill on the essentials of vocabulary, idiom, and construction. Extensive oral exercises are included in reading objective. Prerequisite: French 1 and 2 or two years of high-school French. **6 s.h. (w & e)**

PROFESSORS COWPER, JORDAN AND WALTON; ASSISTANT PROFESSORS ARCHIE AND RAYMOND; MRS. DOW; MESSRS. DEMOREST AND NAJAM

**51-52. Introduction to French Literature.**—Selected texts in modern French literature (fiction and drama) are approached from the literary as well as the linguistic point of view. Throughout the course there is systematic oral practice based on topics within the reading assignments. Prerequisite: French 3 and 4 or equivalent. **6 s.h. (w & e)**

PROFESSORS JORDAN AND WALTON; ASSISTANT PROFESSORS ARCHIE, DOW AND RAYMOND; MR. DEMOREST

**55. Intermediate Conversation.**—To be taken concurrently with French 51, except by special permission. Enrollment limited to 10 students per section. **1 s.h. (w & e)**

Mrs. Dow

**56. Intermediate Conversation.**—Continuation of 55. To be taken concurrently with French 52. **1 s.h. (w & e)**

Mrs. Dow

**108. The French Romantic Movement.**—The Cénacles, Romantic poetry, plays and novels. Lectures; selections from Lamartine, Hugo, Vigny, Musset, Dumas, and others. **3 s.h. (e)**

ASSISTANT PROFESSOR RAYMOND

[Not offered in 1949-50]



111-112. **French Drama since 1850.**—Plays by Augier, Dumas fils, Pailleron, Becque, Brieux, Curel, Rostand, and Lavedan are studied the first semester. Plays by Maeterlinck, De Flers, De Caillavet, Porto-Riche, Romain, Sarment, J. J. Bernard, Lenormand, Pagnol, Claudel, and Giraudoux are studied the second semester. *Causeries* and *précis* in French, written and oral reports. 6 s.h. (E) ASSISTANT PROFESSOR DOW

113. **French Drama of the Seventeenth Century.**—Selected plays of Corneille, Racine, and Molière. 3 s.h. (E) ASSISTANT PROFESSOR RAYMOND  
[Not offered in 1949-50]

127-128. **Advanced Composition and Conversation.**—During the first semester elements of syntax are briefly reviewed, along with constant drill in the conversational idiom. In the second semester, there are exercises in free composition, with intensified treatment of pronunciation and diction. 6 s.h. (E) MRS. DOW

129-130. **Great Men and Events in the French Literary Tradition.**—Oral work and discussion of French texts in French as far as practical. Optional reading along various lines. Prerequisite: French 51-52. 6 s.h. [Not offered in 1949-50] PROFESSOR WALTON

213. **French Classicism.**—Its initial phase. Readings from Malherbe, Corneille, Molière, Racine, Pascal, Boileau, La Fontaine, La Rochefoucauld, Madame de Sévigné, La Bruyère, and others. 3 s.h. (E) PROFESSOR WALTON

214. **French Classicism.**—Its final phase. Readings from Fontenelle, Saint-Simon, Abbé Prévost, Marivaux, Lesage, Montesquieu, Voltaire, and others. Main emphasis on Voltaire. 3 s.h. (E) PROFESSOR WALTON

215-216. **The Modern French Novel.**—A survey of the novel form from the seventeenth to the twentieth century, with particular attention to the analysis of fundamental literary tendencies: classicism, rationalism, romanticism, and realism. 6 s.h. (E) PROFESSOR JORDAN

219. **Old French.**—An introduction to the Old French language and literature. The *Chanson de Roland-Aucassin et Nicolette*. 3 s.h. (E) PROFESSOR COWPER

220. **Old French.**—Types of Old French literature. The *lais* of Marie de France, Chrétien de Troyes and the Arthurian Romance, the *Roman d'aventure*, the *Roman de la rose* and the *Roman de Renard*. Readings and lectures. 3 s.h. (E) PROFESSOR COWPER

227. **French Poetry since Théophile Gautier.**—Readings from the principal figures of the Parnassian and Symbolist movements, including Baudelaire, Leconte de Lisle, Heredia, Verlaine, Rimbaud, Mallarmé, Régner. 3 s.h. (E) PROFESSOR WALTON

232. **Rousseau and the Beginnings of Romanticism.**—A study of the sources of the French Romantic Movement in the works of J. -J. Rousseau and his successors: Bernardin de Saint-Pierre, Senancour, Chateaubriand and others. 3 s.h. (E) PROFESSOR COWPER

238. **Anatole France.**—Analysis of the principal phases of his work and its relation to the French tradition. Reading of his poetry, *Le Crime de Sylvestre Bonnard*, *Thais*, *Le Jardin d'Épicure*, *Les Dieux ont soif*, *Le Lys Rouge*, *L'Île des Pingouins*, parts of *La Vie Littéraire*. Optional individual projects. 3 s.h. (E) PROFESSOR WALTON

#### ITALIAN

181-182. **Italian.**—Introduction to the language, and modern Italian readings. 6 s.h. (E) PROFESSOR ORSINI



## SPANISH

**1-2. Elementary Spanish.**—Pronunciation and essentials of grammar; emphasis on oral work with appropriate reading materials. 6 s.h. (w & e)

DR. LLERENA; MRS. CASTELLANO, MRS. DOW, MRS. GAULT, MISS MATTHEWS; MESSRS. HAMILTON AND PRATT

**3-4. Intermediate Spanish.**—Readings of standard literary texts; intensive oral work; stress on vocabulary acquisition, review of verbs and idiom drill. Prerequisite: Spanish 1-2 or two years of high-school Spanish. 6 s.h. (w & e)

ASSOCIATE PROFESSOR DAVIS; DR. LLERENA; MRS. CASTELLANO, MRS. GAULT, MISS MATTHEWS; MESSRS. HAMILTON AND PRATT

**61-62. Special Section.**—Meeting six hours per week, to cover the work of first-year Spanish in one semester. Limited to 25 students. Primarily intended for those planning to major in Spanish. Others should register for regular section. First semester. 6 s.h. (E)

[Not offered in 1949-50]

**63-64. Special Section.**—Meeting six hours per week, to cover the work of second-year Spanish in one semester. Limited to 25 students. For those planning to major in Spanish. Second semester. 6 s.h. (E)

[Not offered in 1949-50]

**65. Introduction to Modern Spanish Literature.**—Reading of representative modern and contemporary novels as an induction into the study of literature and as a means of maturing the student's command of the language. Prerequisite: Spanish 3-4, 63-64, or equivalent. 3 s.h. (w & e)

ASSOCIATE PROFESSORS DAVIS AND CASTELLANO; DR. LLERENA; MRS. CASTELLANO, MRS. GAULT AND MR. PRATT

**66. Introduction to Modern Spanish Literature.**—Study and oral interpretation of modern and contemporary plays, with continued stress on achievement of ability to read without translating. Prerequisite: Spanish 65 or equivalent. 3 s.h. (E)

ASSOCIATE PROFESSOR CASTELLANO; MRS. CASTELLANO AND MRS. GAULT

**68. Introduction to Spanish-American Literature.**—Reading of selected modern novels typical of Spanish-American life, culture and thought. This course is offered as an alternate to Spanish 66 and is accepted in fulfillment of major and graduation requirements. 3 s.h. (w)

ASSOCIATE PROFESSOR DAVIS; DR. LLERENA; MRS. GAULT AND MR. PRATT

**71. Intermediate Conversation.**—Prerequisite: completion of Spanish 4 or consent of instructor. To be taken concurrently with Spanish 65. Enrollment limited to 10 students per section. 1 s.h. (w & e)

MRS. CASTELLANO

**72. Intermediate Conversation.**—Continuation of 71. To be taken concurrently with Spanish 66 or 68. 1 s.h. (w & e)

MRS. CASTELLANO

**155. Survey of Spanish-American Literature.**—Reading and discussion of representative works which illustrate literary trends from the early Colonial period through Romanticism. Prerequisite: Spanish 65-66 (or 68), or special permission. 3 s.h. (E)

ASSOCIATE PROFESSOR CASTELLANO

**156. Survey of Spanish-American Literature.**—Study of representative works in the field of the novel, the drama, and poetry of the modern and contemporary period, including consideration of such native types as the *gaucho* and *indianista* literature together with a brief introduction to the *modernista* movement. Prerequisite: Spanish 155, or 65-66 (or 68) with special permission. 3 s.h. (E)

ASSOCIATE PROFESSOR CASTELLANO

**173. Advanced Conversation.**—One hour a week will be devoted to a review of the elements of syntax. The remainder of the course aims to

develop facility of expression through constant drill on vocabulary and conversational idiom. Prerequisite: Spanish 66 (or 68) and 71-72, or permission. 3 s.h. (E) ASSOCIATE PROFESSOR CASTELLANO

**174. Phonetics and Diction.**—This course is intended to round out the student's oral experience, with emphasis on accurate pronunciation. Use is made of phonographic demonstrations and corrective exercises, with individual recordings. Prerequisite: Spanish 173 or special permission. 3 s.h. (E)

ASSOCIATE PROFESSOR CASTELLANO

**253. Spanish Phonetics.**—Systematic analysis of the sounds of the Spanish language with corrective exercises and phonetic transcriptions; sound changes; basic principles of intonation; brief survey of regional variations; phonograph demonstrations; inscription of student's voice by electric recorder. Prerequisite: Spanish 173-174 or equivalent. Enrollment of Seniors limited to 10. 3 s.h. (E)

**257-258. Old Spanish Language and Literature.**—First semester: The historical development of the language together with illustrative readings. Second semester: The literature of the Middle Ages and Early Renaissance. Available to properly qualified students upon consultation with the instructor. 6 s.h. (E)

ASSOCIATE PROFESSOR DAVIS

**260. Advanced Composition and Syntax.**—Study of fundamental difficulties in the language; practice in writing idiomatic Spanish; exercises in free composition. For students who have a satisfactory command of Spanish grammar and fair conversational ability. Prerequisite: Spanish 173-174 or permission. 3 s.h. (E)

ASSOCIATE PROFESSOR DAVIS

**261-262. Modern Spanish Novel.**—The evolution of the novel from the *costumbrista* writers through the generation of 1898. Prerequisite: 6 s.h. from courses 155 to 174 inclusive, or 65-66 (or 68) and instructor's permission. 6 s.h. (E)

ASSOCIATE PROFESSOR CASTELLANO

**264. Modern and Contemporary Spanish Theatre.**—A brief review of the modern and contemporary Spanish theatre from the period of Romanticism. Lectures, reading and discussion of the most representative works of Benavente, Martínez Sierra, los hermanos Quintero, etc. 3 s.h. (E)

ASSOCIATE PROFESSOR CASTELLANO

**265. Golden Age Literature: Cervantes.**—The life and thought of Cervantes, with special emphasis on his *Quijote*. 3 s.h.

**266. Golden Age Literature: The Drama.**—Study of the chief Spanish dramatists of the seventeenth century with readings of representative plays of this period. 3 s.h.

#### THE TEACHING OF ROMANCE LANGUAGES

**118. The Teaching of Romance Languages (Education 166).**—Evaluation of objectives and methods; a study of the practical problems involved in the teaching of reading, writing, hearing and speaking; analysis of text books, teaching aids, and testing technique. 3 s.h. (E) ASSOCIATE PROFESSOR DAVIS

#### DEPARTMENTAL MAJOR

##### *Prerequisites:*

For French: French 51-52, or equivalent.

For Spanish: The completion of Spanish 65-66 (or 68), or equivalent.

##### *Major Requirements:*

For French: Eighteen semester hours of work must be completed in courses numbered above 100 and must include: (a) six semester hours in course 127-128; (b) six semester hours of literature in courses 213 to 238. Students desiring the recommendation of the Department for the teaching of Romance Languages will take, in addition, course 118.

For Spanish: Eighteen semester hours of work must be completed in courses numbered above 100 and must include: (a) six semester hours of linguistic training (courses 173-174, 253-260; (b) six semester hours of literature in the courses numbered above 200.

# RUSSIAN

MR. WIENER

51-52. **Introduction to the Russian Language.**—Open to Freshmen with the approval of the Dean. 6 s.h. MR. WIENER

101-102. **Russian Culture and Literature Through the 19th Century.**—After a brief survey from earliest times through 18th century classicism, enlightenment, and sentimentalism, attention is focused on the literature of the 19th century, and the development of romanticism and of the realist school. Special attention is given to the works of Pushkin, Lermontov, Gogol, Goncharov, Turgenev, Tolstoi, Dostoevski, and Gorki. Readings are assigned in English translation. 6 s.h. MR. WIENER

103-104. **An Introduction to Soviet Culture and Literature.**—An analysis of the development of literature and culture during the Soviet period and of the effect of Soviet policy on the literary production of the time. Attention is given to the cultural effects of the Soviet revolution, early schools of poetry and criticism, the emergence, of Soviet fiction, the literature of the Five Year Plan, later Soviet poetry, criticism, theatre, and fiction, the literature of the war and recent trends in Soviet criticism. Readings are assigned in English translation. 6 s.h. MR. WIENER

## SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR JENSEN, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS HART AND THOMPSON; ASSOCIATE PROFESSOR SCHETTLE; ASSOCIATE PROFESSOR LA BARRE; ASSISTANT PROFESSOR WHITRIDGE

91-92. **General Sociology.**—The same as course 101, except that it gives an additional hour of credit to permit the introduction of more concrete materials, and admits Sophomores. 6 s.h. (E & W)

PROFESSOR JENSEN; ASSOCIATE PROFESSOR SCHETTLE; ASSISTANT PROFESSOR WHITRIDGE

101. **General Sociology.**—An introduction to the scientific study of social life; its origin, evolution, and organization as illustrated by the study of a number of concrete social problems. 5 s.h. each semester. (W)

ASSOCIATE PROFESSOR SCHETTLE

### I. ANTHROPOLOGY

111. **General Anthropology.**—Origins and distribution of the races of mankind; a survey of human palaeontology and human biology, world archaeology, prehistory and languages; and the origins of the family, primitive economics, arts, social and political organization. Special attention is given to primitive peoples. Formerly No. 131. 3 s.h. (W) ASSOCIATE PROFESSOR LA BARRE

112. **Cultural Anthropology.**—A study of the dynamics of culture, the causal factors, functions, integration and disintegration, diffusion, growth and change of cultures. Emphasis is upon the simpler societies. Formerly No. 132. 3 s.h. (W) ASSOCIATE PROFESSOR LA BARRE

211. **Peoples of the World.**—A comparative study of cultures the world over, including marriage, religion, economics, social and political organization, art and music, with emphasis upon preliterate peoples. Prerequisite: course 111 or 112. 3 s.h. (W) ASSOCIATE PROFESSOR LA BARRE



**212. Primitive Religion.**—The ethnography, the social functions and the socio-psychological meanings of religion in primitive societies. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w) ASSOCIATE PROFESSOR LA BARRE

**213. Personality and Society.**—The sociology and social psychology of human personality, its origins in the primary group, its nature and varieties, and its integrations into secondary group institutions, with emphasis upon the normal personality and its adjustments in our society and to our culture. Formerly No. 121. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (E)

ASSOCIATE PROFESSOR LA BARRE

[Admission only by consultation with the instructor.]

**214. Personality and Culture.**—The influence of culture patterns and social institutions on character structure, socialization of the individual and the dynamics of human personality. Comparative anthropological materials will be drawn upon. Formerly No. 122. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (E)

ASSOCIATE PROFESSOR LA BARRE

[Admission only by consultation with the instructor.]

## II. ECOLOGY AND POPULATION MOVEMENTS

**133. Sociology of the South.**—The developing regional organization of the world economy studied with especial reference to Southern life and problems. A survey of the composition and distribution of population, races and race relations; economic conditions underlying population, race factors and culture of the South. Primary emphasis is upon social change and its control. Formerly No. 109. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

[Not offered in 1949-50]

PROFESSOR THOMPSON

**134. Human Ecology.**—A study of the human community in its competitive and cooperative aspects. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR THOMPSON

**136. Human Migration.**—A study of mankind in motion, including a consideration of the nature of migration, types of migration and settlement, and problems of migratory contacts. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR THOMPSON

[Not offered in 1949-50]

**137. The Negro in America.**—A study of the history and changing status of the Negro regarded as a symbol and protagonist of minority groups in America and elsewhere. Formerly No. 114. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR THOMPSON

**233. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood; patterns of settlement; culture; peasant, farmer, and folk societies; and rural institutions. Special attention is given to the plantation and the rural problems of the South. Formerly No. 215. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w) Second semester, 1949-50.

PROFESSOR THOMPSON

**235. Urban Sociology.**—The city and civilization. This course studies the inner life and problems of the city and its function in the larger regional and world community which it nucleates. Formerly No. 216. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR THOMPSON

**237. Community and Society.**—This course studies the dual aspect in which social life presents itself: (1) as a population group or groups, and (2) as a constellation of institutions. Formerly No. 218. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR THOMPSON

**238. Race and Culture.**—A study of the nature of race and of the relationships and problems of race. Formerly No. 217. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR THOMPSON



## III. COLLECTIVE BEHAVIOR

**149. Introduction to Child Welfare.**—A study of heredity and environment as factors in personality development: infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Formerly No. 111. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (E)

PROFESSOR JENSEN

**243. Social Attitudes and Collective Behavior.**—Study of attitudes as products of social interaction; organization of attitudes into personal behavior patterns; expression of social attitudes in social, political and industrial groups; social unrest and the behavior of crowds and mobs; analysis of social movements, strikes, revolutions, and other group organizations. Formerly No. 281. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

ASSOCIATE PROFESSOR SCHETTTLER

**246. Public Opinion and Propaganda.**—Nature and development of public opinion; relation to attitude, biases, stereotypes and controversial issues; role of leaders, pressure groups and minority groups; use of radio, press, motion picture and graphic arts; propaganda and censorship; measurements of public opinion. Formerly No. 282. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

ASSOCIATE PROFESSOR SCHETTTLER

**249. Child Welfare.**—A special course in child welfare designed primarily for graduates. Not open to students who have had course 149. Formerly No. 212. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (E)

[Offered in Summer Session 1949]

PROFESSOR JENSEN

**250. Marriage and the Family.**—An analysis of contemporary marriage and family experience with emphasis on its functions, problems, resources and values. Not open to students who have received credit for Religion 170. Formerly No. 242. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (E)

PROFESSOR HART

## IV. SOCIAL ORGANIZATION AND DISORGANIZATION

**153. The Fields of Social Work.**—A non-professional course, designed to acquaint the student with the types of problems existing in both rural and urban communities which can be dealt with in a remedial and preventive way, how they arise in the reciprocal interaction of personality and culture, what their effects are in terms of personal and social disorganization, how communities are organized to deal with them, and social agencies which have been developed to deal with problems of each type, together with an evaluation of effectiveness of the techniques employed. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (E)

ASSISTANT PROFESSOR WHITRIDGE

**157. Social Change and Social Control.**—Basic nature of inventions as related to ideological and material factors; role of the inventor, reformer, and non-conformist; mobility, diversification and individualism as by-products of social change; techniques of social control in the family, school, church, industry and government; social planning and leadership in a dynamic society. Formerly No. 125. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (E)

ASSOCIATE PROFESSOR SCHETTTLER

**158. Sociology of the Professions and Occupations.**—Analysis of the professional and occupational structure of the American economy; shifts and trends in occupations and professions for men, women and minority groups; social and economic characteristics of occupational and professional groups; factors in the selection of a profession or occupation; sources of information about occupations and professions; measurements of aptitudes, abilities and skills; employer-employee relationships. Formerly No. 126. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (E)

ASSOCIATE PROFESSOR SCHETTTLER

**262. Education and the Cultural Process.**—A study of education (1) as carried on traditionally among preliterate and folk peoples, and (2) as it becomes a problem in racially and culturally complex societies like that of the United States. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

[Not offered in 1949-50]

PROFESSOR THOMPSON

**271. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society; poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Formerly No. 205. Prerequisite: course 91-92, 101, 111 or 112.

PROFESSOR JENSEN

**273. Special Problems in Social Pathology.**—Research projects in social and personal disorganization, limited to advanced students with the approval of the instructor. Formerly No. 251. 1 to 3 s.h. each semester. (w)

PROFESSOR JENSEN

**276. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influence in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Formerly No. 206. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR JENSEN

**277. Juvenile Delinquency.**—An intensive study of current research findings as to the nature, causes, extent and distribution of juvenile delinquency; individual and institutional methods of treatment and prevention; diagnostic clinics, juvenile courts and probation, training schools, coordinating councils and preventive agencies. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

[Not offered in 1949-50]

#### V. SOCIAL THEORY

**286. Social Ethics.**—A study of sociological fundamentals underlying ethics, including the controversy between materialistic and idealistic social thinkers, the nature of personalities and of social organization, the nature of social values, types of social interaction and their effects upon general social values, underlying principles and facts of social change, and the bearings of all these upon certain social problems. Formerly No. 236. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR HART

**288. Contemporary Problems in Cultural Lag.**—An exploration of such sociological problems as social evolution, cultural lag, conflict, accommodation, leadership, and social reform, in relation to the crisis of civilization precipitated by the development of the atomic bomb and by kindred discoveries and inventions. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR HART

#### VI. METHODS OF SOCIAL RESEARCH

**191. Principles of Social Case Investigation.**—A non-professional course designed to acquaint the student with the basic research techniques employed in the case study of the interrelationships of personality and culture in various fields of sociological and anthropological interest. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. *Second semester, 1949-50.*

ASSISTANT PROFESSOR WHITRIDGE

**291. Statistical Methods in Sociology.**—Deals with the processes of definition, classification, measurement, tabulation, association, correlation, comparison of averages and of percentages, causation, prediction, preparation and interpretation of charts and graphs, as applied to and illustrated by sociological data. Formerly No. 225. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. (w)

PROFESSOR HART

**293. Special Problems in Social Statistics.**—Applications of statistical techniques to specific research topics. Limited to advanced students with permission of the instructor. 1 to 3 s.h. each semester. PROFESSOR HART

#### DEPARTMENTAL MAJOR

Sociology 91-92 or 101 and twelve additional hours, excluding courses 153 and 191, and including at least six semester hours in Senior-Graduate courses.

#### ZOOLOGY

PROFESSOR GRAY, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR HARGITT; ASSOCIATE PROFESSORS HUNTER AND WILBUR; ASSISTANT PROFESSORS BAILEY, HORN, JOHNSON, AND WHARTON; DRs. ROBERTS AND WARD; AND ASSISTANTS  
UNDERGRADUATE COURSES

**1. General Zoology.**—A brief survey of the animal kingdom. 4 s.h. (w & e) ASSOCIATE PROFESSORS BOOKHOUT AND HUNTER; AND STAFF

**2. Animal Biology.**—The principles of biology as applied to animals. Prerequisite: Zoology 1. 4 s.h. (w & e)

ASSOCIATE PROFESSOR HUNTER AND ASSISTANT PROFESSOR WHARTON; AND STAFF

**53. Comparative Vertebrate Anatomy.**—A study of the anatomy and evolution of the organ systems of vertebrates. Prerequisites: Zoology 1 and 2. 4 s.h. (w & e) ASSISTANT PROFESSORS HORN AND JOHNSON; DRs. ROBERTS AND WARD

**92. General Embryology.**—A study of the fundamental principles of embryology as illustrated in the frog, chick and mammal. Prerequisite: Zoology 53. 4 s.h. (w & e) ASSISTANT PROFESSORS JOHNSON AND HORN

**109. Evolution.**—The facts and theories of organic evolution. Prerequisite: Two years of zoology. 2 s.h. (w) ASSISTANT PROFESSOR BAILEY

**110. Introduction to Genetics.**—The principles and practical applications of genetics as applied to animals, including man. Prerequisite: One year of zoology. 2 s.h. (w) ASSISTANT PROFESSOR JOHNSON; DR. ROBERTS

**120. Ornithology.**—Lectures, laboratory and field trips dealing with the classification, adaptations, and natural history of birds. Prerequisite: One year of zoology. Zoology 53 recommended. 4 s.h. (w)

ASSISTANT PROFESSOR BAILEY

**142. Introduction to Human Physiology.**—An introductory survey of physiological functions with special reference to man. Not open to pre-medical students. Prerequisite: Zoology 53. 4 s.h. (e) DR. WARD

**156. Vertebrate Histology.**—The microscopic structure of normal tissues and organs of the vertebrate body. Training will be given in the preparation of material for microscopic study. Prerequisite: Zoology 53. 4 s.h. (w)

PROFESSOR HARGITT

**161. Animal Parasites.**—With emphasis upon those infesting man. Prerequisite: One year of zoology. 4 s.h. (w) ASSISTANT PROFESSOR WHARTON

**171. General Physiology.**—The physiological processes of living matter approached through studies of cells. Prerequisites: Two years of biology and at least one year of chemistry. 4 s.h. (w) ASSOCIATE PROFESSOR WILBUR

**193. Fundamentals of Zoology.**—The principles involved in the study of structure, function, ecology, genetics, classification, and evolution of animals. An elementary course without laboratory designed for Senior students. Not open to students who have had previous courses in zoology or botany. 3 s.h. (w) PROFESSOR GRAY



196. **Seminar: Current Developments in Zoology.**—Prerequisites: 53, 92,  
171. Open only to Seniors. 2 s.h. (w) STAFF

## FOR SENIORS AND GRADUATES

204. **Advanced Parasitology.**—Lectures, conferences, readings, and laboratory work, dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. 4 s.h. (w)

ASSISTANT PROFESSOR WHARTON

- 219-220. **Special Problems.**—Senior majors who have had proper training may be permitted to carry on special work. Permission must be obtained from the Director of Undergraduate Studies and the instructor under whom the student wishes to work. Not more than 4 s.h. (w & e) STAFF

222. **Entomology.**—A study of anatomy, physiology, embryology, and classification of insects. Prerequisite: One year of zoology. 4 s.h. (w)

PROFESSOR GRAY

224. **Vertebrate Zoology.**—A study of life histories, adaptations, ecology and classification of vertebrate animals. Prerequisite: Zoology 53. 4 s.h. (w)

PROFESSOR GRAY

229. **Endocrinology.**—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, reports and laboratory work. Prerequisites: Zoology 53, 92, and 171. 4 s.h.

238. **Systematic Zoology.**—The fundamental theory and practice involved in the collection, identification, and classification of animals. Prerequisite: Zoology 1, 2. 4 s.h. (w) ASSISTANT PROFESSOR WHARTON

253. **Advanced Vertebrate Morphology.**—Lectures, reports, and reading assignments in the comparative morphology of the vertebrates, with particular emphasis on theories concerning the interrelationships of vertebrates and the origin of certain vertebrate structures. Advanced laboratory study of structure in selected groups of vertebrates. Prerequisites: Zoology 53 and 92. 4 s.h. (w)

ASSISTANT PROFESSOR HORN

274. **Invertebrate Zoology.**—A study of structure, function, and habits of invertebrate animals under normal and experimental conditions. Field trips will be made to study, collect, and classify animals in their natural habitats. Offered in alternate years. Prerequisites: Zoology 1 and 2. 4 s.h. (w)

ASSOCIATE PROFESSOR BOOKHOUT

276. **Protozoology.**—The morphology, physiology, taxonomy, and culture of protozoa. Offered in alternate years. Prerequisites: Zoology 1 and 2. 4 s.h. (w)

ASSOCIATE PROFESSOR BOOKHOUT

For summer courses in Marine Biology consult the Bulletin of the Duke University Marine Laboratory.

RELATED COURSES, ONE OF WHICH MAY BE COUNTED TOWARD  
A MAJOR IN ZOOLOGY

- Botany 101. Principles of Heredity.**—3 or 4 s.h. (w)

ASSOCIATE PROFESSOR PERRY

- Botany 103. General Bacteriology.**—4 s.h. (w & e)

PROFESSOR WOLF

- Botany 202. Genetics.**—4 s.h. (w)

ASSOCIATE PROFESSOR PERRY

## DEPARTMENTAL MAJOR

*Prerequisites:* Zoology 1 and 2.

*Major Requirements:* Twenty-four semester hours including courses 53, 92, 171. The remaining twelve hours may be from any other courses for which the student is eligible. Related courses must include at least one year of chemistry.



# THE COLLEGE OF ENGINEERING

## ADMISSION

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Committee on Admissions has received his scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant, since it would enable him to acquaint himself with the facilities of the University and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculating.

*All correspondence relating to admission of men should be addressed to the Secretary of Duke University, Duke Station, Durham, N. C.*

## GENERAL REQUIREMENTS

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English .....	4	Botany .....	1
Latin .....	4	Zoology .....	1
Greek .....	3	General Biology .....	1
German .....	3	Physical Geography .....	1
French .....	3	General Science .....	1
Spanish .....	3	Agriculture .....	2
Mathematics .....	4	Mechanical Drawing .....	2
History and Civics .....	4	Woodwork, Forging, and	
Physics .....	1	Machine Work .....	2
Chemistry .....	1	Household Economics .....	2
		Commercial Subjects .....	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

**ADMISSION BY CERTIFICATE**

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least ten of the fifteen units required for admission must come from the following:

*Required Units*

English .....	3 units
*A Foreign Language .....	2 units
Physical Science .....	1 unit
History .....	1 unit
Algebra .....	1½ units
Plane Geometry .....	1 unit
**Solid Geometry .....	½ unit

*Elective Units*

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra .....	½ unit
Trigonometry .....	½ unit
†German or French or Latin or Spanish or Greek .....	1 to 4 units
History or Civics (not the required unit) .....	1 to 3 units
Physics or Chemistry or Biology (not the required unit) .....	1 to 3 units

**ADMISSION BY EXAMINATION**

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics, and such other tests as the University may prescribe.

**ADMISSION TO ADVANCED STANDING**

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

\* Any deficiency in this requirement may be made up before graduation.

\*\* Any deficiency in this requirement shall be made up before the beginning of the Sophomore year.

† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not, during their first semester, elect more than the minimum number of hours required of the class which they enter except by permission of the Dean of Engineering.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 addition for the privilege of matriculating.

### FRESHMAN WEEK

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests in English and mathematics are given. Sectioning in these two subjects is based on the grade made on the placement tests. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

### SPECIAL STUDENTS

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

### FEES AND EXPENSES

Information as to fees and expenses and room accommodations applicable to the College of Engineering is given, along with similar information for Trinity College and the Woman's College, on pages 169-173.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

## GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, or mechanical engineering as a profession and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E. All curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development.

Each of these degrees requires one hundred and forty-eight semester hours of work of which four semester hours is in physical education. A student must have at least a "C" average in his Senior year as well as a "C" average for the entire program.

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

### *Uniform Freshman Year*

FIRST SEMESTER			SECOND SEMESTER		
		S.H.			S.H.
Math 5	College Algebra .....	3	Math 50	Analytic Geometry .....	3
Math 6	Trigonometry .....	3	Math 51	Calculus I .....	3
Chem 1	Chemistry .....	4	Chem 2	Chemistry .....	4
Eng 1	English .....	3	Eng 2	English .....	3
Hist E1	History .....	3	Hist E2	History .....	3
G.E. 1	Drawing .....	2	G.E. 2	Drawing .....	2
	Physical Education .....	1		Physical Education .....	1
		19			19

## GROUP ONE

### CIVIL ENGINEERING

#### *Sophomore Year*

FIRST SEMESTER			SECOND SEMESTER		
		S.H.			S.H.
Math 52	Calculus II .....	3	Math 53	Calculus III .....	3
Phys 51	Physics .....	5	Phys 52	Physics .....	5
Econ 51	Economics .....	3	Econ 52	Economics .....	3
G.E. 57	Statics .....	3	G.E. 107	Strength of Materials ..	3
C.E. 61	Surveying .....	4	C.E. 62	Surveying .....	4
	Physical Education .....	1		Physical Education .....	1
		19			19



*Junior Year*

Eng 113	Advanced Composition ..	3	Eng 151	Public Speaking .....	3
G.E. 58	Dynamics .....	3	G.E. 128	Hydraulics .....	3
C.E. 131	Structures .....	5	C.E. 132	Structures .....	5
C.E. 113	Route Surveying .....	3	C.E. 118	Materials .....	3
E.E. 123	Electric Circuits .....	4	E.E. 124	Electric Machinery .....	4
		18			18

*Senior Year*

C.E. 123	Sanitary Engineering ...	4	C.E. 124	Sanitary Engineering ..	3
C.E. 135	Soils .....	3	C.E. 116	Highways .....	3
C.E. 133	Reinforced Concrete ...	4	C.E. 140	Indeterminate Structures	3
M.E. 103	Heat Power .....	3	C.E. 144	Projects .....	2
M.E. 115	Mech. Eng. Laboratory 1		M.E. 104	Heat Power .....	3
	Elective (Non-Technical) .....	3	M.E. 116	Mech. Eng. Laboratory 1	
		18		Elective (Non-Technical) .....	3
					18

GROUP TWO

ELECTRICAL ENGINEERING

*Sophomore Year*

FIRST SEMESTER		S.H.	SECOND SEMESTER		S.H.
Math 52	Calculus II .....	3	Math 53	Calculus III .....	3
Phys 51	Physics .....	5	Phys 52	Physics .....	5
Econ 51	Economics .....	3	Econ 52	Economics .....	3
G.E. 57	Statics .....	3	M.E. 52	Kinetics—Mechanism ...	4
E.E. 51	Survey—Electrical Engineering .....	1	E.E. 52	Electricity—Magnetism ..	3
Eng 113	Advanced Composition ..	3		Physical Education .....	1
	Physical Education .....	1			19
		19			

*Junior Year*

E.E. 101	Circuits .....	3	E.E. 102	Circuits .....	3
E.E. 107	Circuits Laboratory ...	1	E.E. 108	Circuits Laboratory ...	1
E.E. 105	Measurements .....	4	E.E. 106	Electronics .....	4
Math 131	Differential Equations ..	3	E.E. 148	D-C Machinery .....	3
M.E. 103	Heat Power .....	3	M.E. 104	Heat Power .....	3
M.E. 115	Mech. Eng. Laboratory 1		M.E. 116	Mech. Eng. Laboratory 1	
G.E. 128	Hydraulics .....	3	Eng 151	Public Speaking .....	3
		18			18

*Senior Year*

E.E. 257	A-C Machinery .....	3	E.E. 258	A-C Machinery .....	3
E.E. 163	Machinery Laboratory ..	1	E.E. 164	Machinery Laboratory ..	1
E.E. 261	Communications .....	4	E.E. 262	Communications .....	4
E.E. 165	Seminar .....	1	E.E. 166	Seminar .....	1
E.E. 159	Transmission .....	3	G.E. 107	Strength of Materials ...	3
E.E.	Elective .....	3	G.E. 109	Materials Laboratory ...	1
	Elective (Non-Technical) .....	3	E.E.	Elective .....	2
		<hr/>		Elective (Non-Technical) .....	3
		18			<hr/>
					18

**GROUP THREE****MECHANICAL ENGINEERING***Sophomore Year*

FIRST SEMESTER			SECOND SEMESTER		
		S.H.			S.H.
Math 52	Calculus II .....	3	Math 53	Calculus III .....	3
Phys 51	Physics .....	5	Phys 52	Physics .....	5
Econ 51	Economics .....	3	Econ 52	Economics .....	3
G.E. 57	Statics .....	3	M.E. 52	Kinetics-Mechanism ....	4
M.E. 55	Steam Engineering .....	2	Eng 113	Advanced Composition ..	3
M.E. 51	Constructive Processes ..	3		Physical Education .....	1
	Physical Education .....	1			<hr/>
		<hr/>			19
		20			

*Junior Year*

M.E. 101	Thermodynamics .....	3	M.E. 102	Thermodynamics .....	3
M.E. 113	Mech. Eng. Laboratory ..	1	M.E. 114	Mech. Eng. Laboratory ..	2
M.E. 105	Fluid Mechanics .....	3	M.E. 108	Aeronautics .....	3
G.E. 107	Strength of Materials ..	3	M.E. 106	Heat Transfer .....	3
G.E. 109	Materials Laboratory ..	1	M.E. 150	Machine Design .....	3
E.E. 123	Electric Circuits .....	4	E.E. 124	Electric Machinery ....	4
Eng 151	Public Speaking .....	3			<hr/>
		<hr/>			18
		18			

*Senior Year*

M.E. 151	Machine Design .....	4	M.E. 158	Industrial Engineering .	3
M.E. 155	Internal Combustion Engines .....	3	M.E. 162	Power Plants .....	3
M.E. 153	Heating—Air Conditioning .....	3	M.E. 154	Refrigeration .....	3
M.E. 159	Mech. Eng. Laboratory ..	2	M.E. 160	Mech. Eng. Laboratory ..	2
	Engineering Elective ...	3		Engineering Elective ...	3
	Elective (Non-Technical) .....	3		Elective (Non-Technical) .....	3
		<hr/>			<hr/>
		18			17

## COURSES OF INSTRUCTION, COLLEGE OF ENGINEERING

PROFESSOR HALL, DEAN; PROFESSOR BIRD, CHAIRMAN, CIVIL ENGINEERING; PROFESSOR SEELEY, CHAIRMAN, ELECTRICAL ENGINEERING; PROFESSOR WILBUR, CHAIRMAN, MECHANICAL ENGINEERING; ASSOCIATE PROFESSORS MEIER, REED, AND SNOW; ASSISTANT PROFESSORS EGERTON, HAINES, JONES, KENYON, KRAYBILL, LEWIS, PALMER, VAIL, AND WILLIAMS; MESSRS. BOUTWELL, BROWN, DAVIS, HARDY, HATLEY, HOLLAND, MARTIN, MORGAN, SLAUGHTER, RABIN, AND WILDER

### GENERAL ENGINEERING

**1-2. Engineering Drawing.**—The study of mechanical drawing with emphasis on drawing parts; elementary machines, dimensioning, and working drawings; pencil and ink technique, elementary drawing board geometry, including point, line and plane relations, and elementary work in developments and intersections. 4 s.h. STAFF

**5. Descriptive Geometry.**—The study of drawing board problems involving point, line, and plane relationships; development of solids; intersections of solids and concurrent non-coplanar forces, with emphasis on practical applications. 2 s.h. STAFF

**57. Statics.**—Concurrent forces, parallel forces, nonconcurrent and non-parallel forces, centroids, friction, moment of inertia. Prerequisite: course G.E. 1-2. Mathematics 52 concurrent. 3 s.h. STAFF

**58. Dynamics.**—Translation, rotation, work, energy, and momentum. Prerequisites: courses G.E. 57, and Mathematics 52. 3 s.h. STAFF

**107. Strength of Materials.**—Elastic bodies under stress; flexure of simple, overhanging, fixed, and continuous beams; columns; combined stresses, etc. For Civil Engineering students, the laboratory work is included in course C.E. 118. Other students should take course G.E. 109 for laboratory. Prerequisite: course 57. 3 s.h. STAFF

**109. Strength of Materials Laboratory.**—Concurrent with course G.E. 107. 1 s.h. Either semester. STAFF

**128. Hydraulics.**—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course G.E. 57. 3 s.h. Either semester. STAFF

### CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; ASSOCIATE PROFESSOR SNOW; ASSISTANT PROFESSORS JONES, LEWIS, PALMER, AND WILLIAMS; MESSRS. BROWN, DAVIS, AND WILDER

**61. Plane Surveying.**—Use of instruments; transit, stadia and compass surveying; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, departures and areas; methods of plotting; survey and plot of portions of campus by stadia, and transit and tape; care and adjustment of instruments. Prerequisites: G.E. 1 and trigonometry. 4 s.h. MR. BROWN

**62. Advanced Surveying.**—Simple triangulation; topographic surveying using stadia and plane table; laying out and division of land; public land system; calculations; grading plans and quantities; determination of azimuth by H. O. 211. Prerequisite: course 61. 4 s.h. MR. BROWN

**S110. Plane Surveying.**—A modification of course 61 especially for students in Forestry. See *Bulletin of Summer Session*. 3 s.h. STAFF

**113. Route Surveying.**—Thorough drill in the calculation and laying out of simple, compound, and easement curves; widening of curves; vertical curves; setting slope stakes; ordinary earthwork computations and mass diagrams. Prerequisite: course 61. 3 s.h. ASSISTANT PROFESSOR WILLIAMS

**116. Highway Engineering.**—Location, design, construction and maintenance of highways and city streets; soil stabilization; traffic studies; economics of planning and design. Prerequisites: courses 113, 135. 3 s.h. ASSISTANT PROFESSOR WILLIAMS

**118. Materials of Engineering.**—Study and testing of materials commonly used in civil engineering; proportioning concrete. Prerequisite: course G.E. 107 or concurrent. 3 s.h. ASSISTANT PROFESSOR WILLIAMS

**123. Water Supply and Sewage.**—Statistical analysis of rainfall and run-off records; population estimation; analysis of the yield of watersheds and storage requirement; design of water distribution systems; design of sanitary and storm sewerage systems. Prerequisite: course G.E. 128. 4 s.h. ASSOCIATE PROFESSOR SNOW

**124. Water Purification and Sewage Treatment.**—Chemical and bacteriological analysis of water and sewage effluents; design of water purification treatment systems; design of sewage treatment plants. Prerequisite: course C.E. 123. 3 s.h. ASSOCIATE PROFESSOR SNOW

**131. Structures.—Analysis and Elementry Design.**—Stresses in roofs, parallel and inclined chord bridges, including sub-divided panels, by algebraic and graphic methods under all conditions of loading; shear and moments in frames and bents; influence lines; Williot diagram. Structural drafting, details in steel and wood; methods of fabrication and erection. Prerequisites: courses G.E. 57, 107. 5 s.h. ASSISTANT PROFESSOR PALMER

**132. Structures.—Design.**—Tension, compression, flexural members, end posts, eccentric connections, unsymmetrical bending; riveted and welded plate girders; trusses and office building frames; wind analysis. Design and detail drawings. Prerequisite: course 131. 5 s.h. ASSISTANT PROFESSOR PALMER

**133. Reinforced Concrete.**—Theory and design of reinforced concrete beams, slabs, and columns including eccentric loads; footings; retaining walls. Prerequisite: course G. E. 107. 4 s.h. PROFESSOR BIRD

**135. Soil Mechanics.**—Identification and classification; flow nets; frost action; stability of foundations, cuts and embankments, and retaining walls; settlement. Laboratory includes identification, permeability, shear, unconfined compression, consolidation and compaction tests. Prerequisite: course G.E. 107. 3 s.h. PROFESSOR BIRD

**137-138. Seminar.**—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. 2 s.h. [Not offered in 1949-50] STAFF

**140. Indeterminate Structures.**—Application of least work, slope deflection, moment distribution, and column analogy. Analytic, graphic, and experimental methods are used. Prerequisites: courses 131, 133. 3 s.h. PROFESSOR BIRD

**143-144. Projects in Civil Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who have shown an aptitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. 2-6 s.h. STAFF



**ELECTRICAL ENGINEERING**

PROFESSOR SEELEY, CHAIRMAN; ASSOCIATE PROFESSOR MEIER; ASSISTANT PROFESSORS EGERTON, KRAYBILL, AND VAIL; MESSRS. HATLEY, MARTIN, AND SLAUGHTER

**51. Survey of Electrical Engineering.**—A course designed to give the student a general survey of the engineering profession, to define the scope of activities of the electrical engineer, and to provide an introduction to engineering problems. One two-hour computation. **1 s.h.**

ASSISTANT PROFESSOR KRAYBILL AND STAFF

**52. Principles of Electricity and Magnetism.**—An introductory course covering a mathematical and physical analysis of energy relations in electrostatic and magnetostatic fields; resistance, capacitance and inductance of systems of conductors; systems of electric and magnetic units. Two recitations and one two-hour computation. Prerequisites: E.E. 51, Mathematics 52. Physics 52 concurrently. **3 s.h.**

ASSISTANT PROFESSOR VAIL

**101-102. Circuits in Electrical Engineering.**—A two-semester course covering methods of electric and magnetic circuit analysis applicable in all branches of electrical engineering; alternating and direct currents; the algebra of vectors and complex quantities; networks; nonsinusoidal waves; coupled circuits; transients; polyphase circuits; symmetrical components. Prerequisite: E.E. 52. Mathematics 131 concurrently. **6 s.h.**

ASSISTANT PROFESSOR VAIL

**105. Electrical Measurements.**—A course covering direct-current and low-frequency measurements; the theory, calibration, and use of laboratory standards, potentiometers, instrument transformers, and power and energy measuring apparatus; and audio-frequency measurements of impedance, current and potential. Three class sessions and one three-hour laboratory. Prerequisite: E.E. 52. Mathematics 131 and E.E. 101 concurrently. **4 s.h.**

MESSRS. HATLEY AND SLAUGHTER

**106. Electron Tubes and Circuits.**—A course covering electronic emission, static and dynamic tube characteristics, rectification, glow-discharge tubes, amplifiers, oscillators, and other typical circuits. Three class sessions and one three-hour laboratory. Prerequisites: E.E. 101, E.E. 107, E.E. 102 and E.E. 108 concurrently. **4 s.h.**

MESSRS. HATLEY AND SLAUGHTER

**107-108. Circuits Laboratory.**—A two-semester course designed to provide instruction in electrical laboratory techniques and in the preparation of engineering reports, and to provide experimental verification of the theory of course 101-102, with which it should be taken concurrently. One three-hour session. **2 s.h.**

ASSISTANT PROFESSOR VAIL AND STAFF

**123. Principles of Electric Circuits.**—A course designed especially for students in other branches of engineering, covering fundamental electric units and both alternating and direct-current circuits. Three class sessions and one three-hour laboratory. Prerequisites: Mathematics 53 and Physics 52. **4 s.h.**

ASSISTANT PROFESSORS KRAYBILL AND EGERTON

**124. Principles of Electric Machinery.**—A course designed especially for students in other branches of engineering, covering the application of the principles of course E.E. 123 to alternating and direct-current machinery and associated apparatus. Three class sessions and one three-hour laboratory. Prerequisite: E.E. 123. **4 s.h.**

ASSISTANT PROFESSORS KRAYBILL AND EGERTON

**143. Direct-Current Machinery.**—A study of the principles which underlie the design and operation of all types of direct-current generators, motors, and associated apparatus. Prerequisites: E.E. 101 and E.E. 107. E.E. 102 and E.E. 108 concurrently. **3 s.h.**

ASSOCIATE PROFESSOR MEIER

**157. Industrial Applications of Electrical Equipment.**—A course of lectures, demonstrations, and recitations designed especially for students in other branches of engineering, dealing with the basic principles of utilization of a wide variety of electrical equipment in industrial practice. Emphasis is on industrial control, motor and generator applications, and electronic devices and applications. Prerequisite: E.E. 124. 3 s.h. ASSOCIATE PROFESSOR MEIER

**158. Electric-Power Stations.**—A course providing a brief survey of the electric-power industry followed by a consideration of the economic and engineering features of power plant location and design, and by a study of the apparatus utilized in the generation, transmission and distribution of electric power. Prerequisites: E.E. 148 and M.E. 104. E.E. 257-258 concurrently. 3 s.h. PROFESSOR SEELEY

**159. Transmission.**—A development of the theory underlying the transmission of electric energy over conductors at both power and communication frequencies. Two class sessions and one two-hour computation. Prerequisites: E.E. 101-102, E.E. 105, E.E. 106, Mathematics 131. 3 s.h. PROFESSOR SEELEY

**163-164. Electric Machinery Laboratory.**—A study of the technique of testing electric machines and a thorough analysis of their performance. Concurrent with E.E. 257-258. One three-hour session, for two semesters. 2 s.h. ASSOCIATE PROFESSOR MEIER AND MR. MARTIN

**165-166. Electrical Engineering Seminar.**—A course in which Seniors are required to present oral reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. 2 s.h. STAFF

**173-174. Projects in Electrical Engineering.**—A course which may be undertaken only by Seniors who show special aptitude, or who may have had previous experience directly related to the proposed project. The consent of the Chairman of the Department must be obtained before registering. 3-6 s.h. PROFESSOR SEELEY AND STAFF

**198. Industrial Control.**—This course, open only to students majoring in electrical engineering, consists of a study of the electromagnetic and electronic control of electric motors in industrial applications. Prerequisites: E.E. 101-102, E.E. 106, E.E. 148, and E.E. 257. E.E. concurrently. 3 s.h. ASSOCIATE PROFESSOR MEIER

**257-258. Alternating-Current Machinery.**—A two-semester course dealing with the theory underlying the design, construction, and operation of synchronous generators, transformers, polyphase induction motors, synchronous motors, single-phase motors of all types, and converters and rectifiers. Prerequisites: E.E. 101-102 and E.E. 148. 6 s.h. ASSOCIATE PROFESSOR MEIER AND MR. MARTIN

**261. Communication Engineering: Low Frequency.**—An advanced course dealing with the principles underlying voice-frequency communication. Included are the nature of sound and speech; wave propagation over metallic circuits; filters; resistance, inductance and capacitance at audio frequencies; transmission characteristics of audio-frequency communication equipment. Three class sessions and one three-hour laboratory. Prerequisites: E.E. 101-102, E.E. 106, and Mathematics 131. 4 s.h. PROFESSOR SEELEY AND MR. HATLEY

**262. Communication Engineering: High Frequency.**—An advanced course dealing with the principles underlying communication at radio and ultra-high frequencies. Included are oscillating and coupled circuits, antennas, radiation, transmission, reception, and ultra-high frequency techniques. Three class sessions and one three-hour laboratory. Prerequisite: E.E. 261. 4 s.h. PROFESSOR SEELEY AND MR. HATLEY

**263-264. Mathematical Analysis of Electric Circuits.**—An advanced course covering the mathematical analysis of certain circuits used in electrical engineering, with an introduction to the application of operational calculus to circuit analysis. Prerequisites: E.E. 101-102 and Mathematics 131. **6 s.h.**

PROFESSOR SEELEY

## MECHANICAL ENGINEERING

PROFESSOR WILBUR, CHAIRMAN; ASSOCIATE PROFESSOR REED; ASSISTANT PROFESSOR KENYON; MESSRS. BOUTWELL, HARDY, HOLLAND, AND MORGAN

**51. Constructive Processes.**—Recitation course covering fundamentals of metallurgy and general processes of casting, forging, and machining. Demonstration or observation of basic machining operations is arranged when possible. Prerequisite: Chemistry 2. **3 s.h.** MESSRS. BOUTWELL, HARDY AND HOLLAND

**52. Kinetics-Mechanism.**—Motions of particles. Applications of Newton's *Laws of Motion* to motions of rigid bodies. Work, energy, impulse, and momentum. Linkage, cams, gears, trains of mechanism. Three recitations, three laboratory hours. Prerequisites: G.E. 2, G.E. 57, Mathematics 52. **4 s.h.**

ASSOCIATE PROFESSOR REED AND MESSRS. HARDY AND BOUTWELL

**55. Steam Engineering.**—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam; fuels and combustion. Prerequisite: Chemistry 2. **2 s.h.** ASSISTANT PROFESSOR KENYON AND MR. HOLLAND

**101-102. Engineering Thermodynamics.**—A study of thermodynamic properties and processes of gases, vapor and gas-vapor mixtures; cycles; efficiencies and performance of steam power plant equipment. Three recitations. Prerequisites: Mathematics 52, Physics 52, M.E. 55. **6 s.h.**

PROFESSORS WILBUR AND KENYON

**103-104. Heat Power Engineering.**—A short course in engineering thermodynamics with applications to power plant design, for C.E. and E.E. students only. Three recitations. Prerequisites: Chemistry 2, Mathematics 52, Physics 52. **6 s.h.** ASSISTANT PROFESSOR KENYON, MESSRS. HARDY AND HOLLAND

**105. Fluid Mechanics.**—Fluid statics; kinematics of fluid flow; application of fluid dynamics theory to flow through orifices, weirs, and pipes; general principles of centrifugal pumps and turbines. Prerequisites: M.E. 52, Mathematics 52, Physics 52. PROFESSOR WILBUR AND MR. MORGAN

**106. Heat Transfer.**—Conduction, radiation and convection; heat transfer to boiling liquids or condensing vapors; over-all transfer of heat, steady state or variable flow. Applications to heat power, heating and air conditioning, and refrigeration. Prerequisites: M.E. 101, M.E. 105, Mathematics 52. M.E. 102 concurrently. **3 s.h.** ASSOCIATE PROFESSOR REED

**108. Aeronautics.**—A general course applying fluid mechanics principles to airfoils, propellers, and the complete airplane. Prerequisite: M.E. 105. **3 s.h.** MR. MORGAN

**113-114. Junior Mechanical Engineering Laboratory.**—Open only to mechanical engineering students. First semester, three laboratory hours, devoted to experiments and reports in hydraulics, flue gas analyses, calorific value of fuels. Second semester, six laboratory hours, devoted to experiments and reports related to thermodynamics, such as boiler inspection, air compression, injectors, steam and fuel calorimetry. Prerequisite: M.E. 55. M.E. 101-102 concurrently. **3 s.h.** PROFESSOR WILBUR AND STAFF



**115-116. Junior Mechanical Engineering Laboratory.**—Open only to Electrical and Civil engineering students. Experiments and reports on measuring instruments and apparatus, flow of air, steam and water, economy of boilers, steam and internal combustion engines. Three laboratory hours. M.E. 103-104 concurrently. 2 s.h.  
PROFESSOR WILBUR AND STAFF

**150-151. Machine Design.**—Application of principles of mechanics, strength of materials, constructive processes and engineering drawing to the design of bolted, riveted and welded connections, pressure vessels and machine elements, followed by design of at least one complete machine. M.E. 150 has two recitations and three laboratory hours; M.E. 151 has two recitations and six laboratory hours. Prerequisites: G.E. 2, M.E. 52, G.E. 57, M.E. 51, G.E. 107. 7 s.h.  
MESSRS. BOUTWELL AND HOLLAND

**153-154. Heating, Air Conditioning and Refrigeration.**—Determinations of heat losses and gains; design of steam, hot water and warm air heating and air conditioning systems; panel heating. Fundamentals of refrigeration theory and design. Applications of refrigeration to summer and year round air conditioning; commercial and industrial applications of refrigeration. Prerequisites: M.E. 102, M.E. 105, M.E. 106. M.E. 159-160 concurrently. Two recitations, three laboratory hours. 6 s.h.  
ASSOCIATE PROFESSOR REED

**155. Internal Combustion Engines.**—Principal cycles; fuels and fuel mixtures; effect of real mixtures on theoretical cycles; combustion; carburetion and fuel injection. Thermodynamic analysis of engine performance. Modern developments in the internal combustion engine. Three recitations. Prerequisite: M.E. 101-102. 3 s.h.  
MR. HARDY

**158. Industrial Engineering.**—A study of the industrial growth and present tendencies of productive industries as concerns the engineer. Specific topics treated are: plant location, organization, production and cost controls, wage payment, etc. Seniors only. Three recitations. 3 s.h.  
ASSISTANT PROFESSOR LEWIS

**159. Senior Mechanical Engineering Laboratory.**—Tests and reports on performance and economy of internal combustion engines, steam engines and turbines; heat transfer, radiator tests, and heat balances. Required of all Seniors in mechanical engineering. Six laboratory hours. Prerequisite: M.E. 114. M.E. 153 concurrently. 2 s.h.  
PROFESSOR WILBUR AND STAFF

**160. Senior Mechanical Engineering Laboratory.**—Required of all Mechanical Option Seniors. Tests and reports on boiler, engine, turbine, condenser and accessories; heat transfer; refrigeration equipment. Six laboratory hours. Prerequisite: M.E. 159, M.E. 154, M.E. 162 concurrently. 2 s.h.  
PROFESSOR WILBUR AND STAFF

**162. Power Plant Calculations.**—Study of economic and engineering factors in developing steam power plants. Consideration of the performance of boilers, prime movers, condensers and various auxiliaries in various groupings as they affect the plant heat balance. Three recitations. Prerequisite: M.E. 101-102 or 103-104. 3 s.h.  
PROFESSOR WILBUR

**197-198. Projects in Mechanical Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who express a desire for such work and who have shown aptitude for research in one distinct field of mechanical engineering. Elective credit for either semester. 3-6 s.h.  
PROFESSOR WILBUR AND STAFF



## **ACADEMIC REGULATIONS**

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### **TRINITY COLLEGE, WOMAN'S COLLEGE, AND COLLEGE OF ENGINEERING**

The undergraduate colleges are operated on the two-semester plan: the autumn semester and the spring semester begin and end in accordance with the published calendar of this bulletin. Two semesters of seventeen weeks each constitute the academic year.

It is important that all students be present on the first day of the session. Those who are late incur the penalties described in this catalogue under the topics: "Admission to College" and "Course Cards." Students who enter after the beginning of the semester are marked absent from classes to which they have been assigned, and these absences carry the same penalty as other absences.

### **MATRICULATION, REGISTRATION, AND ENROLLMENT**

All new students must appear before the Committee on Admission and obtain cards of admission which must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer certificates of matriculation before they can be registered in classes. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Students whose course cards have been approved in the spring in the manner provided below are given an opportunity during the summer to matriculate by mail for the first semester. No student without an enrollment card is admitted to any class. Students who enter after the beginning of the semester are marked absent in the work they have missed in the courses to which they are admitted, and these absences carry the same penalty as do other absences from the courses.

### **COURSE CARDS**

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's office. Students who do not select their courses for the following year at the time appointed must pay a fee of \$5.00 to the Treasurer of the University before their course cards may be approved in the fall. The same regulations apply for the second semester. An advance deposit of \$25.00 is required before the last day of the spring registration for the fall semester.

Students whose course cards have been approved but who, for reasons not arising within the University, desire to make changes in the cards

approved are required to pay to the Treasurer a fee of \$1.00 for each change made.

No course may be elected later than two weeks after the opening of the semester.

If a student drops a course without permission from the Dean, the grade for that course shall be recorded as "F."

If a student drops with permission a course in which he is failing at that time, the grade for that course shall be recorded as "F" unless, in the judgment of the Dean, circumstances do not justify this penalty.

### **RESIDENCE REQUIREMENT**

One year in residence (a minimum of 30 semester hours) is required of all candidates for degrees. The work of the Senior year must be taken in residence with the exception that one course of six to eight semester hours in final fulfillment of requirements may be taken in another institution of approved standing, provided the course is approved by the head of the department concerned and by the Dean.

### **DEFINITION OF CREDIT**

The term of credit used is the semester hour, which signifies one recitation a week throughout the semester. Two or three hours of laboratory work are equivalent to one hour of class work.

### **SEMESTER HOURS AND QUALITY POINTS**

The requirements for the degree are computed not only in semester hours but also in quality points. Quality points are the points earned by a student, according to his grades: for an "A" three quality points per semester hour; for a "B" two quality points per semester hour; for a "C" one quality point per semester hour; for a "D" no quality points; for an "F" a loss of one quality point per semester hour. Credit for 124 quality points is required for the degree of Bachelor of Arts or Bachelor of Science. (See pages 146-147 for requirements in the College of Engineering.)

### **HOURS OF CLASSWORK**

The normal course load of an undergraduate student in the College of Arts and Sciences is five academic courses, 14 to 17 semester hours, and the maximum number permitted is 19 semester hours, exclusive of physical education. No student is permitted to take less than 14 s.h. work without special permission from the Dean; to take more than the normal load of work unless his average grade in the preceding semester is higher than "C."

### **CLASS STANDING**

For a student to rank as a Sophomore, he must have to his credit twenty-six semester hours with an average grade of "C"; as a Junior, fifty-six semester hours with an average grade of "C"; as a Senior, ninety-two semester hours with an average grade of "C."

### JUNIOR-SENIOR COURSE RESTRICTIONS

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

### SENIOR WORK

A student of the Senior Class, irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete the work of his Senior year with a minimum average grade of "C."

### DEFICIENCIES IN COMPOSITION

The following regulations have been adopted by the Faculty:

1. Any student, who must take English 1 and whose score in the English placement test indicates that he is not yet ready for English 1, must earn a passing grade in English I before being permitted to enter English 1.
2. At the beginning of his Junior year each student must take an examination in English usage. Students who fail to make a satisfactory grade on this examination will be required to complete satisfactorily a special, non-credit course in remedial English.
3. Whenever the work of a student in any course is considered to be unsatisfactory because of gross errors in English, the instructor may report the student to the Dean who will require him to enroll in remedial English until, in the opinion of the director, the deficiency is removed.
4. All instructors are requested to advise their students each semester concerning this regulation.

### EXAMINATIONS

Final examinations are held in all subjects in January and May.

### REGULATIONS REGARDING GRADES

Grades shall be reported so as to indicate one of four things:

- (1) *Passed.* A grade of "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.
- (2) *Failed.* A grade of "F" shall indicate that the student has failed the course, and in order to receive credit for the course he must repeat the work in class.
- (3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) Incomplete courses must be completed before the close of the succeeding semester; otherwise the "I" is recorded as "F," and the course must be repeated in class if the student is to receive credit for it.
- (4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absent from the final examination. (b) A stu-

dent absent from examination and having the grade "X," if his absence has been excused by the Dean of the College, may receive an examination upon the payment of a fee of \$3.00 to the Treasurer of the University. The instructor concerned shall arrange for the examination in cases where absences are excused. (c) All students (with "X" grades), who have not obtained a passing grade before the end of the succeeding semester in which the "X" was incurred, are regarded as having failed in the course concerned and must repeat the work in class in order to receive credit. (d) If a student's absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

### **CLASS ATTENDANCE AND ABSENCE REGULATIONS**

Regular and punctual attendance in class work is expected of all students. Weekly reports of all absences from class are to be made by each instructor and filed in the Dean's office. No instructor has the authority to excuse a student from class attendance, and it is his duty to report all absences and tardinesses to the Dean's office. Three tardinesses are counted as an absence.

To provide for absences due to brief illness and other absences for necessary reasons, one absence per semester hour credit may be incurred in each course during each semester.

Absences due to continuous illness of at least four days' duration and authorized absences for representation of the University may be excused provided foresight has been used in previous absences.

In the Sophomore, Junior, and Senior classes students who, in a normal schedule, make averages of "B" or above in the preceding semester will be allowed two absences per semester hour but will, in all other respects, be subject to the same regulations as other students.

All absences immediately before and after announced holidays are doubled.

For each unexcused excessive or consecutive absence, the student incurs the loss of quality points in proportion to the number of such absences taken; one quality point for the first absence, two for the second, and three for the third. When the third unexcused, excess, or consecutive absence is incurred, the student is debarred from the course with the loss of six quality points.

When a student's course load is reduced, because of unexcused absences, to less than twelve semester hours, he shall be required to withdraw from the University.

### **EXCLUSION FOR FAILURE**

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless he passes as much as six semester hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester hours of work in the first semester.



A student of the Freshman Class is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least six semester hours of work in the second semester of the previous year and a total of eighteen semester hours of work for the entire year; any other student is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least nine semester hour of work in the second semester of the previous year and a total of eighteen semester hours of work for the entire year.

#### **STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS**

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester hours with which they are credited, provided an average of "C" is made during the first year in residence.

#### **CANDIDATES FOR ACADEMIC DEGREES**

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be furnished in copy to each department of instruction for information and reference, and also shall be posted in copy on the official bulletin board of the University for the information of the students concerned.

2. Copies of the second such tentative list likewise shall be prepared and distributed by April 15.

3. A final list of all candidates for the degree shall be submitted by the Dean to the Faculty at its first regular meeting in May and shall be adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

A student who completes in a summer session the work required by the University for the Bachelor's degree will be granted the degree at the end of the summer.

## **GENERAL REGULATIONS AND INFORMATION**

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### **ASSEMBLY AND CLASS MEETINGS**

#### **TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING**

Monthly meetings of the Sophomore, Junior and Senior Classes of Trinity College and the College of Engineering are held according to their respective schedules. The Freshman Classes of these colleges meet weekly.

Attendance upon these meetings is compulsory.

#### **WOMAN'S COLLEGE**

A weekly assembly is held for all students in the Woman's College, and an additional assembly for all Freshmen. A meeting of the Freshman Class is held each week, and other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

### **CONDUCT OF STUDENTS**

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University therefore reserves the right, and matriculation by the student is a concession of this right, to ask the withdrawal of any student whose conduct at any time is not satisfactory to the University, even though no specific charge be made against the student.

### **SCHOLASTIC REGULATIONS FOR ATHLETIC AND OTHER ORGANIZATIONS**

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.

2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satisfactorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not passing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

"The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be the passing by the applicant of a minimum of twenty-four semester hours or thirty-six quarter-hours of the work of his immediately preceding year in college; with the proviso that graduate students and students in the schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."

**PUBLICATIONS COUNCIL**

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three members from the University Staff appointed by the President of the University; two members from the alumni appointed by the President of the University; six men from the Junior and Senior classes, elected by the students in Trinity College and the College of Engineering; four women from the Junior and Senior classes, elected by the students in the Woman's College; and three editors and three managers of student publications, ex officio members without any voting power.

No student publication can be started at the University without the approval of the Council.

**REGULATIONS REGARDING PUBLIC LECTURES AND  
OTHER PUBLIC OCCASIONS**

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council.

(1) The Council on Public Lectures shall provide each year an official calendar.

(2) All public occasions held on either the East or the West Campus are listed for the Weekly Calendar of Duke University in the office of the Department of Alumni Affairs in the West Campus Union. This calendar appears each Saturday, and such notices must be received by 5:00 P.M. on the Thursday preceding.

Social or other events held in the West Campus Union must be listed in the Office of the Director of Alumni Affairs, and permission must be secured for such social use of the public rooms in the building.

**REPORTS**

A report of each student's class attendance and his proficiency in academic work is sent to his parents or guardians after the examinations at the end of each semester. Mid-semester reports for freshmen are also mailed to parents.

**ADMINISTRATION OF DISCIPLINE**

General oversight of the conduct of students and the administering of discipline are under the supervision of the Vice-President in the Division of Student Life. The duty of immediate supervision, guidance, and control of the students in each college is entrusted to the Dean of that College. However, through the expressed willingness of the students of the University to assume the responsibility of maintaining high standards of morals and honor at all times, the student body has properly become to a great degree self-governing in this respect. Two councils, one of men and the other of women, each composed of duly elected representatives of the

student body, exercise the authority granted the students to investigate all cases of misconduct, as well as all other cases of violation of proper student standards and traditions, and to make recommendations of penalties based on their findings.

The student councils have been of great help to the administrative authorities of the University. They not merely exercise the authority granted to them, but also exert a guiding and stimulating influence for the promotion of high ideals of conduct and student relationships.

### **HEALTH AND PHYSICAL EDUCATION**

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

### **MEDICAL CARE**

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during both the college year and the summer quarter. The cost of this is included in the general fee paid each semester and in the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmarys (one on each campus) and the University Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, X-ray work, and ward, but not special nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., and accidents or illnesses occurring during vacations or while off the campus, are not included in this service. (A commercial accident-expense reimbursement policy is available if desired.) The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

A woman physician is in residence on the Woman's College campus, and a nurse is in constant attendance at the women's Infirmary. Patients in this Infirmary can be transferred to the Duke Hospital at any hour of the day or night. Male students receive ambulant care at the student health office in the hospital building during dispensary hours. Men are admitted to the hospital directly whenever necessary. The emergency service and the specialist consulting services of the Hospital and Medical School are always available.

The printed form for the medical certificate required by the Committee on Admissions, which is sent to all prospective students, includes advice as to certain types of medical and surgical care by their home physician or surgeon, such as the giving of typhoid or smallpox vaccine, removal of diseased tonsils, correction of errors of refraction, repair of a hernia,



or removal of a chronic appendix. Important time is frequently lost in correcting these conditions after entrance into college, and the cost of this work must be borne by the student.

When the student comes to the University, he is given a careful physical examination. Any physical defects are recorded along with the record of the questionnaire from the family physician. All students are requested to be successfully vaccinated against smallpox before admission to the University. It is urgently advised that they take typhoid vaccine if they have not done so within three years.

## **PHYSICAL EDUCATION AND INTERCOLLEGIATE SPORTS**

### **TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING**

The University requires all students to engage in some type of physical activity for two years or four full semesters. This work consists of participation in natural, practical, physical activity for at least three one-hour periods each week. A credit of four semester hours is required in physical education for graduation. The purpose of this work is to improve body control and strength through big muscle activities, to stimulate the development of mental and physical alertness, to establish habits of regular exercise, and to give training and experience in various kinds of recreational sports that will be indulged in after the student graduates from the University.

Intramural sports are fostered and promoted in all lines of athletic activity. Meets, tournaments, and leagues are seasonally organized in the different sports. All students in the University are eligible to enjoy the intramural privileges, provided they comply with the intramural rulings. Participation in these activities is entirely voluntary, but is very popular because it provides an opportunity for every man to enter into competition and recreation in those sports which he enjoys most.

The intercollegiate athletic program is controlled entirely by the University and consists of the organization and training of representative Freshman and varsity teams in the following sports: football, basketball, baseball, track, cross country, swimming, lacrosse, wrestling, tennis, and golf.

### **WOMAN'S COLLEGE**

The Physical Education Department aims to give all students an appreciation of the value of activity for general physical well-being, skill in one or more activities which can be enjoyed as recreation during and after college, a well-developed and well-coordinated body, and a knowledge of good posture and efficient handling of the body in everyday activities.

To this end, students are allowed to choose from a large number of activities including individual, dual, and team sports, swimming, and several types of dancing. In order to insure a variety of skills, each student, during her three years of required physical education, must elect one semester's work in each of the following types of activity: team sports, individual or dual sports, and dance. All students who are unable to pass

the swimming test must take one semester of swimming before graduation. In addition to the two hours per week of activity classes, all Freshmen are required to take a course in orientation in physical education and body mechanics, meeting once a week during the first semester.

In addition to the required work in physical education the Dance Group, the Swimming Club, and the Woman's Athletic Association give opportunities for all students to take part in the types of intramural activities most interesting to them. The swimming pool, tennis courts, and other athletic equipment are available to all students for use at specified times.

#### PHYSICAL EDUCATION AND RECREATION FEES

In order to meet certain hygienic aspects of physical education and intramural athletics the University has made available for all students, in addition to facilities for physical activity and recreation, the following equipment and services:

1. (a) Men. A regulation uniform: shirt, trunks, supporter, socks, sweat clothes, and towel.  
(b) Women. Gym suit, dance costume, bathing suit, warm-up suit.
2. Provision for locker and handling of uniform.
3. The laundering of uniform and towel as needed.

The privileges and services listed above are available to all students who pay full fees, so long as they comply with the rules and regulations established for the care and handling of same.

#### THE ATHLETIC COUNCIL

The Executive Committee of the Board of Trustees at a meeting held on January 8, 1949, received and considered a report from the Board's standing Committee on Physical Education and Athletics recommending a reconstitution of the Athletic Council. The report recommended that the action of the Board of Trustees at its regular annual meeting in June, 1907, by which it set up an Athletic Council, be rescinded and that a new Athletic Council be created. The Executive Committee adopted the report of the Board's standing Committee on Physical Education and Athletics as follows:

The Athletic Council shall be composed of seven members on the following basis:

Three from the Faculty to be appointed at once by the Executive Committee of the Board of Trustees and thereafter annually at the time of the annual Commencement by the President as follows: one member from the General Administration; one member from the undergraduate colleges division of the educational administration; and one member from the instructional staff of the undergraduate colleges. From this group the President shall appoint the Faculty Chairman, who shall be Chairman of the Athletic Council and its Executive Committee.

Four from the Alumni, one of whom shall be a University Trustee, an alumnus, and a member of the Board's standing Committee on Physical Education and Athletics, who is to be appointed not less frequently than every three years by the Chairman of the Board of Trustees. The remaining three of the Alumni members of the Council shall be elected annually by the general Alumni Association for terms of three years and may not succeed themselves. (For the purpose of giving effect to this limitation as of the 1949 Commencement, one member shall be elected for a term of one year, one for two years and one for three years. In order to immediately reconstitute the Council, the Executive Committee of the Board of Trustees shall appoint at once the four Alumni members to serve until their successors are elected or appointed at the 1949 Commencement.)

The Director of Alumni Affairs shall *ex officio* be Secretary of the Athletic Council and of its Executive Committee.

The three Faculty members of the Athletic Council constitute a committee which alone has the responsibility of enforcing the scholarship and athletic requirements of the University for participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference.

The Executive Committee of the Athletic Council is composed of the Faculty Chairman of the Council, one other Faculty member of the Council and one Alumni member of the Council. The Executive Committee of the Council recommends to the President of the University persons to serve as Director of Athletics and as coaches in the various sports. The election of such persons however rests solely with the Board of Trustees of the University or with its Executive Committee on recommendation of the President of the University. The Executive Committee of the Council recommends to the Athletic Council athletic schedules and the award of insignia of merit earned by members of the athletic teams. However, decisions with respect to same rest solely with the Athletic Council subject to approval of the President.

Each of the four undergraduate classes shall select annually, for terms of one year, a member of each respective class to serve in an advisory capacity to the Athletic Council upon call of the Faculty Chairman on the matter of awarding insignia of merit.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is to be made annually by the official auditors of the University and a report thereof made annually to the Executive Committee of the Board of Trustees.

### RELIGIOUS SERVICES

The Duke University Church (Interdenominational) conducts services throughout the year. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. A Vesper service, conducted each Thursday

at 7:00 P.M., is sponsored by the Student Religious Council. Organ recitals and special musical programs are given from time to time on Sunday afternoons in the Chapel. During the summer, carillon recitals are given twice a week.

#### **APPOINTMENTS OFFICE**

The University maintains an Appointments Office, with services extended to all students and alumni without charge. This office has two divisions, commercial (general placement) and educational (teacher placement). Students and alumni are encouraged to register with the office in order to make available in one center information respecting their various qualifications for the employment they seek.

#### **THE BUREAU OF TESTING AND GUIDANCE**

The University maintains a Bureau of Testing and Guidance in which is centralized the counseling and guidance program for students. It is responsible for the administration of various testing programs throughout the year. Included in the responsibilities of the Bureau are admissions tests, placement tests, vocational series, other specialized programs including the Graduate Record Examination, the Navy College Aptitude Test, the Medical College Admissions Test, and specific testing programs requested by the schools and colleges within the University. The Bureau likewise maintains facilities for research projects in the field of guidance and testing and offers such services to schools and individuals outside the community as its facilities permit. Requests for further information should be addressed to The Director, Bureau of Testing and Guidance, Duke Station, Durham, North Carolina.



## FEES AND EXPENSES

### UNDERGRADUATE COLLEGES OF ARTS AND SCIENCES AND COLLEGE OF ENGINEERING

All fees listed below, with the exception of that for registration, are due and payable at the beginning of each semester. The General Fee, adopted by the Board of Trustees in March, 1947, became effective for the academic year 1947-48 and thereafter, takes the place of various separate fees heretofore collected and is a consolidation, principally for simplification, of these separate fees. Among the fees included in this consolidation are the laboratory fees, athletic fee, publication fee, medical fee, matriculation fee, library fee, and commencement fee. Special fees for instruction in Applied Music are listed on page 74.

Registration, payable only once, on notice of acceptance. This is not refundable .....	\$ 20.00
Tuition .....	175.00
General Fee .....	75.00

An advanced deposit of \$25.00 is required of all students at the time of spring registration in order to reserve a place in the classes for the fall semester. This is applied toward payment of the general fee upon the opening of the fall semester. The deposit will be refunded to students whom the University does not permit to return. Students who fail to return of their own volition are not entitled to a refund.

An advance deposit of \$25.00 is also required of old students who have been out of school for one or more semesters and have been accepted for readmission. It is applied toward payment of the general fee for the semester of readmission. The advance deposit is paid at the time of acceptance and is not refundable.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary expenses are as follows:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$350.00	\$ 350.00	\$ 350.00
General Fee .....	150.00	150.00	150.00
Room-rent .....	100.00	125.00	175.00
Board .....	325.00	375.00	450.00
Laundry .....	25.00	30.00	35.00
Books .....	20.00	30.00	40.00
	<hr/> \$970.00	<hr/> \$1,060.00	<hr/> \$1,200.00

The actual fees and expenses necessary for one year in residence as a student in Trinity College, the Woman's College or the College of Engineering, then, can be met within \$970.00.

**LIVING ACCOMMODATIONS FOR MEN**

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	\$87.50
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	62.50

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet.

One dormitory is assigned to Freshmen.

Rooms may be reserved only for applicants who have been officially accepted by the University. A fee of \$25.00 is required for reservation. This fee is deducted from the room rental charge at the time of registration for the semester; it is not refunded unless application for the refund is made sixty days prior to the registration date of the semester.

A resident student in order to retain his room for the succeeding semester must make application, accompanied by a reservation fee of \$25.00. All rooms which have not been reserved on or before an announced date will be considered vacant for the succeeding semester and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or, in the case of a medical student, one quarter, unless by special arrangement with the Housing Bureau. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The exchange of rooms may be arranged at the Housing Bureau within fifteen (15) days after the official opening of the semester or quarter of the school term. A charge of two dollars (\$2.00) will be made for the exchange of rooms after the periods allowed for such exchange. Persons exchanging rooms without the approval of the Housing Bureau will be subject to charges for both rooms.

The authorities of the University do not assume the responsibility for the personnel selected as roommates. Each student is urged to select the roommate when the room is reserved.

**DORMITORY REGULATIONS FOR MEN**

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and furniture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damages caused by

his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.

2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 A.M. and ceasing at 1:00 P.M., thereby giving the student complete use of his room during the afternoon.

3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.

4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs, and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.

9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University are forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts within the buildings or on the grounds is prohibited except by appointees of the University.

### LIVING ACCOMMODATIONS FOR WOMEN

All undergraduate women except those staying with parents or close relatives are required to live in the residence houses of the Woman's College, which are situated on the East Campus, a mile and a quarter from the West Campus. Exception may be made by the Dean in the case of students over 21 years of age who wish to live off the campus.

*Residence Houses.* The houses, in each of which there is a resident Counselor, are Alspaugh, Aycock, Bassett, Brown, Giles, Jarvis, Pegram and Southgate. All rooms in Aycock, Jarvis, and Southgate are double. In the other houses there are a few singles and several suites consisting of a double and a single or two singles. Plans of the houses may be obtained from the Dean of Residence, College Station, Durham, North Carolina.

Visitors other than women who are relatives or friends of the occupants are not permitted in any part of a residence house except the lounges, unless they have received permission from the Counselor of the House.

No one—including the occupants of the house—may sell or advertise goods of any kind or solicit funds for any purpose without the permission of the College authorities.

*Room Furnishings.* All rooms contain only the principal articles of furniture. A student is required to supply her own linens, blankets, bedspreads, curtains, and study-lamps. She may, if she wishes, provide additional articles such as scatter-rugs and small tables or bookcases, but she is not permitted to have large rugs or heavy overstuffed furniture.

*Room Rent.* Each occupant of a double room is charged \$62.50 a semester; the occupant of a single room, \$87.50 a semester.

Rooms are rented for no shorter period than one semester, unless by special arrangement with the Dean of Residence. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

*Room Reservations.* Room reservations are made with the Dean of Residence of the Woman's College. To obtain a reservation, a student must pay a fee of \$25.00, which is later deducted from the room rent. A new student should pay this fee as soon as she is accepted by the Committee on Admissions. If she does not pay it within ten days, her admission is cancelled. As an applicant for admission may not reserve a room until she is officially accepted, she is requested not to send the reservation fee before she receives notice of her admission.

A student cancelling her room reservation sixty days or more prior to the official opening of the semester may have her fee refunded. After that date no refunds are made.

In the spring, resident students reserve rooms for the next fall semester in accordance with the plan announced by the Dean of Residence. New students are, as far as possible, given their choice of the remaining rooms.

*Roommates.* A new student who wishes a double room but has made no arrangement for a roommate will be assigned a roommate by the College. After a student has been a resident for one semester, she is responsible for obtaining and keeping a roommate. If a student occupying a double room does not obtain a roommate in the time required by the Dean of Residence—approximately two weeks after the beginning of the semester—she may be required to pay the rental consideration for the entire room.

*Room Occupancy.* After a student has engaged a room, she is not permitted to move to another without the consent of the Dean of Residence. A student leaving one room and occupying another without permission may be charged for both rooms for the entire semester. No student is allowed to rent or sublet the room she has engaged to another occupant.

### DINING SERVICE

*West Campus.*—Food service is cafeteria style. The cost of meals approximates \$1.25 to \$1.75 per day, depending upon the need and taste of the individual. The dining facilities on the West Campus include three cafeterias with multiple choice menus, and, in addition, the Oak Room where full meals and *a la carte* items are served.

*Woman's College, East Campus.*—The dining halls of the Woman's College are situated in the Union and in Southgate. No resident woman is permitted to board elsewhere than at these halls. The charge for board is \$175.00 per semester, payable at the time of registration.

It is hoped that present rates may be maintained. Charges, however, are necessarily dependent upon costs of labor, foods and materials, and some adjustment may be necessary.

Because of the large number of those served in the dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

### REGULATIONS REGARDING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:



1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.

2. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full; subsequent withdrawal does not entitle a student to a refund.

3. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all his indebtedness to the University.

4. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the midyear or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time; but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

### TRANSCRIPTS

Students desiring transcripts are entitled to one transcript without charge. A fee of \$1.00 is charged for each additional transcript. Records are not released when any outstanding amount is reported by the Treasurer's Office.

## SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

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Duke University annually awards available scholarships, administers loan funds, and supervises student employment through a committee of the Faculty for deserving undergraduates of Trinity College, the Woman's College, and the College of Engineering.

### SCHOLARSHIPS

Scholarships intended to aid needy and deserving students have been established from time to time by persons deeply interested both in Duke University and in the members of its student body. All scholarship endowments are held in trust and are kept separate and distinct from other holdings of the University. All income is faithfully applied in accordance with the terms of the gift or bequest.

In addition, a limited number of scholarships, notably the honorary awards in recognition of scholastic merit and strength of character, are financed through current funds of the University.

Scholarships are awarded annually by a committee of the Faculty appointed by the President of the University. In some cases donors have specified certain limitations and conditions. These are faithfully followed, but in all cases final award is made by the Faculty committee.

Any prospective student may apply for a scholarship. Applications, however, may be made formally by a prospective student only after his application for admission has been made, all necessary credentials have been presented, and notification of acceptance has been given. All applications are to be by letter and must include on a form furnished by the University a complete statement of the applicant's needs. The number of scholarships available is small in comparison with the number of applicants for these awards. As a result, the committee, in making its decisions, must in so far as possible limit scholarship aid to cases where the need is imperative.

All applications for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University.

### THE ANGIER DUKE REGIONAL SCHOLARSHIP PRIZES

*Value.* Six scholarship prizes of \$750.00 each are awarded annually to four men and two women. Prizes are awarded for one year and are renewable from year to year for a maximum duration of four years, on the condition that the holder maintain a scholastic average in the upper quartile of his class and further that he show evidence of developing the qualities of leadership which served as the basis for the original selection. When all awards are renewed, there are twenty-four holders of prizes in residence. The total value to the recipient who qualifies for the maximum period is \$3,000.00.

*Eligibility.* Any resident of the state of North Carolina is eligible to apply regardless of where he or she prepares for college. A candidate may be a graduate of a secondary school, public or private, located within or beyond the borders of the state. Candidates must be eligible for admission to the Freshman class of Trinity College, the College of Engineering or the Woman's College in the ensuing academic year and must have maintained scholastic standing in the highest quartile of their class.

*Objective.* The prizes are intended to encourage as students young men and women who give promise of becoming leaders in their chosen fields of endeavor. As potential leaders, they should possess character, personality, intellectual integrity, vitality, and imagination. As students they should possess scholastic ability of a creative sort and minds that can digest and use the knowledge they acquire. The scholarships are designed to stimulate young men and women who possess these traits to become citizens with a genuine interest in society and ability to influence and direct the course of affairs.

*Procedure.* Applications for one of the scholarships awarded to men should be addressed to the Office of the Secretary, Duke University, Durham, N. C.; applications for one of the scholarships awarded to women should be addressed to the Director of Admissions, Woman's College, Durham, N. C. The deadline for filing of these applications is December 15 in the academic year preceding the year of contemplated entrance to college.

### LOAN FUNDS

A number of loan funds have been established for the benefit of students of Duke University. The most important and largest of these is the Angier B. Duke Memorial Student Loan Fund, which is administered through an advisory committee of officers of the University. The amount available to be loaned annually depends upon the income from investments and on the amount repaid on loans previously made to students.

The same committee of officers administers the other endowed loan funds of the University.

Although a considerable sum accrues annually for loans to students, it is not sufficient to provide for all calls for assistance. The committee in approving loans selects those students who, from the standpoint of character, scholastic attainment, personality, and degree of financial need, are most deserving of consideration.

The following regulations govern the making of all student loans:

1. No loans shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.

2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an opportunity to acquaint themselves with the worthiness and the need involved in any particular case.

3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.

4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.

5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.

6. Interest at a rate of six per cent annually shall be charged for all loans of money, and the interest must be paid annually.

7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished in the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

### EMPLOYMENT

In order to serve the students attending Duke University who need part-time employment, a student employment office is maintained. There are many work opportunities both on the campus and in the city of Durham. Although there is no definite number of such places, a considerable number of students each year help defray their college expenses by working.

A listing of all known available jobs is kept in this office, and the majority of students who wish to work are placed in suitable jobs. The student employment office also keeps a permanent record of the work activities of the self help students and is able to write recommendations in the Senior year of these students for the Appointments Office.

Prospective students may make application for part-time employment only after they have completed an application for admission and notification of acceptance has been given. The job application should be by letter prior to the reporting date for entrance, and a complete detailed job application form must be completed on the date of arrival at Duke University.

Those students in Trinity College and the College of Engineering in need of such employment may apply to Mr. J. M. Dozier, 209 Administration Building, West Campus. Students in the Woman's College should apply to the Assistant Dean of Residence, 108 East Duke Building, East Campus.



## HONORS AND PRIZES

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To be eligible for Honors a student must earn during the year a credit of not less than thirty semester hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality points per semester hour are given Honors. All semester hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred upon the following rules:

Students who have completed a minimum of ninety semester hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality points per semester hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality points per semester hour are recommended for a degree *summa cum laude*. All semester hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

### MEDALS AND PRIZES

*The Wiley Gray Medal* was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee, the best, with respect to both declamation and composition.

*The Debate Council* authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

*The Robert E. Lee Prize* is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of \$50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in manly virtues and capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

*Alpha Kappa Psi Medallion*. This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

*The Willis Smith Prize*. Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize con-

sisting of a set of books selected personally by Mr. Smith each year for that purpose.

*Julia Dale Prize in Mathematics.* This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

*The Milmow Prize,* consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

*The Tau Beta Pi Prize.* The North Carolina Gamma chapter of Tau Beta Pi, national honorary engineering fraternity, awards each year a suitable prize, such as an engineering handbook, to a Sophomore student in engineering for outstanding scholastic achievement during the Freshman year.

*The Pegram Chemistry Club Prize* will be awarded in the spring of each year for scholarship in chemistry, physics, and mathematics. The prize is to consist of one-year junior membership in the American Chemical Society, and a one-year subscription to either the *Journal of the American Chemical Society*, or to *Industrial and Engineering Chemistry*. To qualify for this prize the student must (1) be enrolled as an undergraduate of Duke University and (2) be taking or have taken a fourth-year chemistry course. The winner of this prize is to be selected by a committee consisting of at least one Faculty member and at least two members of the Pegram Chemistry Club; the selection is to be based on the quality-point average for all courses taken in chemistry, physics, and mathematics. In case of a tie equal awards will be given.

*The Sigma Xi Prize.* The Society of the Sigma Xi, honorary scientific society, is devoted to the encouragement of scientific research, and seeks to stimulate those who show promise of accomplishment in scientific research. As an encouragement to younger men and women the Duke Chapter of Sigma Xi has established the following prizes to be awarded annually to students resident at Duke University: \$20.00 for an undergraduate project or paper, \$20.00 for a Master's thesis or its equivalent, and \$40.00 for a Ph.D. dissertation or its equivalent. Nominations, recommendations, copies of theses, reports or other material must be in the hands of the Secretary of the Chapter on or before May 5.

*The Erasmus Club Prize in the Humanities.* The Erasmus Club, founded in 1925, a group of Duke faculty members interested in research in language, literature, and the arts, seeks to stimulate interest and study in these fields. To encourage Duke students in this field, the Erasmus Club has established an annual prize, amounting to \$25.00, for the best original essay by an undergraduate which embodies the results of research, criticism, or evaluation in some subject in the humanities. Prospective competitors should consult some member of the Faculty, preferably their major professor. Essays must be typewritten and must be

submitted to the president of the Club before the first of April. The Club reserves the right to withhold the prize in case there are no essays of acceptable quality.

*The Anne Flexner Memorial Award in Creative Writing* has been established by the friends and family of Anne Flexner, who graduated from Duke in 1945. It consists of fifty dollars in cash and a book bearing the Anne Flexner Memorial Award bookplate. It is given annually for the best pieces of creative writing submitted by a Duke undergraduate. It is limited to short stories (5,000 word limit), one-act plays (5,000 word limit), poems (100 line limit), and informal essays (3,000 word limit). Only one manuscript may be submitted by a candidate, and manuscripts must be delivered to the English Office, Room 2G5, West Duke, before April 15.

*The William Senhauser Prize* is given by his mother in memory of her son, a member of the Class of 1942, who lost his life in the Pacific Theatre of War on August 4, 1944. The award is made annually to the Sophomore or Junior in Trinity College or the College of Engineering who has made the greatest contribution through participation and leadership in intramural sports. The winner of this prize is chosen by a committee selected by the President of the University.

*The Friends of Duke University Library* offer three prizes of \$25.00, \$15.00, and \$10.00 in an annual contest open to all undergraduate students for the best book collections acquired during their college years. The contest is supervised by the Undergraduate Committee of the Friends of the Library, which announces each fall the terms of the award. Inquiries may be directed to the Curator of Rare Books. Collections entered in the contest are exhibited each spring in the General Library, and the prizes are awarded on the basis of the student's collection and a personal interview to determine the over-all planning and objectives of his collecting activity, and his familiarity with his own books and the general field of his collecting interest.

## STUDENT ORGANIZATIONS AND ACTIVITIES

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*The Men's Association of Duke University* comprises all men students in Trinity College and the College of Engineering. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of nine members: three executive officers, two representatives from the Senior Class, two from the Junior Class, and one from the Sophomore Class, and one from the College of Engineering.

*The Women's Student Government Association* is similar in character to the men's association. Its council is composed of the officers of the Association, house presidents and president of the Town Girls' Club, class representatives, and chairman of the Freshman Advisory Council, *ex officio*.

*The Young Men's Christian Association* and the *Young Women's Christian Association* are branches of the national student Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. These organizations carry on extensive activity in the fields of social service, faculty-student relations, forums, and other related projects. Membership in the Student Religious Council relates these organizations to the total religious activities program of the Duke University Church, Interdenominational.

Other organizations and activities include the following:

Bench and Bar Society (Pre-Legal Undergraduates); Class of 1949; Class of 1950; Class of 1951; Class of 1952; Classical Club (Men); Club Panamericano; Commodore Club; Debate Council (Men); Duke Masonic Club; Duke Players; Duke University Church (Interdenominational); Duke University Handbook and Directory; Duke University Steering Committee; Engineers' Club; G. O. Politan Club; Graduate Club; Hoof 'n' Horn Club; Interfraternity Council; Intramural Athletic Department; Men's Freshman Advisory Council; Pegrarn Chemistry Club; Pre-Medical Society; Quadrangle Pictures; Shoe and Slipper Club; Student Religious Council; Town Boys' Club; Town Girls' Club; Woman's College Student Forum; Women's Athletic Association; Women's Freshman Advisory Council; Young Democrats Club.

### HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Alpha Kappa Psi (Economics); Chi Delta Phi (Literary); Delta Phi Alpha (German); Kappa Chi (Pre-Ministerial); Kappa Delta Pi (Educational); Omicron Delta Kappa (Leadership—Men); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship—Men); Pi Mu Epsilon (Mathematics); Sigma Delta Pi (Spanish); Sigma Pi Sigma (Physics); Tau Kappa Alpha (Forensic); Tau Psi Omega (French); Theta Alpha Phi (Dramatic).



**HONORARY ORDERS AND FRATERNITIES (LOCAL)**

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); Ivy (Scholarship—Freshman Women); Mu Sigma (Psychology); Phi Kappa Delta (Leadership—Women); Sandals (Sophomore—Women); Varsity "D" Club (Athletic—Men); White Duchy (Leadership—Senior Women).

**ENGINEERING STUDENT PROFESSIONAL SOCIETIES**

Student branches of the following national professional engineering societies are active at the College of Engineering: American Institute of Electrical Engineers; the American Society of Civil Engineers; the American Society of Mechanical Engineers; and the Institute of the Aeronautical Sciences.

**ENGINEERING STUDENT HONORARY SOCIETIES**

Tau Beta Pi (National Honorary Engineering Fraternity); Pi Tau Sigma (Mechanical Engineering National Honorary Society); Order of St. Pat (Leadership).

**MUSICAL ORGANIZATIONS**

Chamber Orchestra; Concert Band; Madrigal Singers; Marching Band; Men's Glee Club; Music Study Club; Symphony Orchestra; University Chapel Choir; Women's Glee Club.

**N.R.O.T.C. ORGANIZATION**

Commodore's Club, N.R.O.T.C. Social Organization.

**SOCIAL FRATERNITIES (NATIONAL)****(The Men's Interfraternity Council)**

Alpha Tau Omega; Beta Theta Pi; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Theta Chi; Zeta Beta Tau.

**SOCIAL SORORITIES (NATIONAL)****(The Women's Pan-Hellenic Council)**

Alpha Chi Omega; Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Delta Gamma; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

**STUDENT PUBLICATIONS****(Publications Board)**

*Archive* (Monthly); *Chanticleer* (Annual); *Chronicle* (Weekly); *Duke 'n' Duchess* (Monthly Humor); *DukEngineer* (Bimonthly).

**STUDENT ACTIVITIES OFFICE**

The Student Activities Offices were established for the purpose of assisting and co-ordinating the financial activities of the various student

organizations in Trinity College, the College of Engineering, and the Woman's College.

The offices offer to student organizations a banking service through the office of the University Treasurer. They also provide auditing services for organizations requiring it. Permanent records of all financial activities of organizations are kept under the supervision of the offices. The Student Activities Offices, co-operating with the University Purchasing Department, also serve in the capacity of purchasing agent for affiliated student organizations. There is no charge for this service.

In addition to these specific services, the purpose of the offices is to promote well organized and effective extra-curricular interest.

Student Activities Offices for Trinity College and the College of Engineering are located on the West Campus, and for the Woman's College on the East Campus.

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May, 1949

NUMBER 7

# BULLETIN OF DUKE UNIVERSITY

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*The Graduate School of  
Arts and Sciences*



1948-1949

ANNOUNCEMENTS FOR 1949-1950

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

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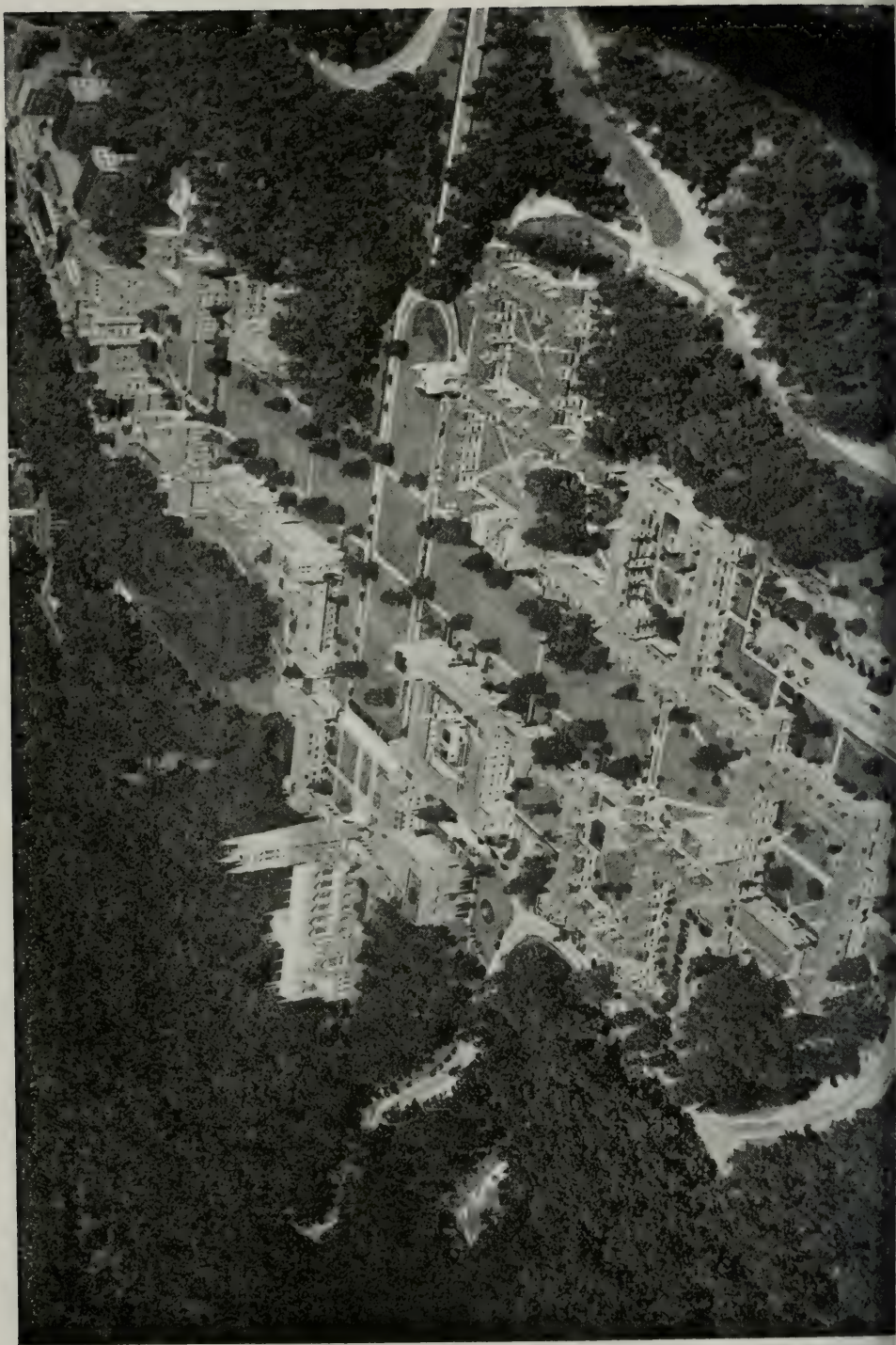
BULLETIN  
OF  
DUKE UNIVERSITY

THE GRADUATE SCHOOL  
OF ARTS AND SCIENCES



1948-1949  
ANNOUNCEMENTS FOR 1949-1950

DURHAM, NORTH CAROLINA  
1949





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## CALENDAR OF THE GRADUATE SCHOOL

### SUMMER SESSION

1949

- |      |    |  |
|------|----|--|
| June | 13 | Monday—Registration of students for Summer Session, first term.      |
| June | 14 | Tuesday—Instruction begins for Summer Session, first term.           |
| July | 21 | Thursday—Registration of students for second term of Summer Session. |
| July | 22 | Friday—Instruction begins for second term of Summer Session.         |
| Aug. | 31 | Wednesday—Second term of Summer Session ends.                        |

### ACADEMIC YEAR 1949-50

- |              |       |   |
|--------------|-------|---|
| Sept.        | 19-21 | Monday through Wednesday—Registration of graduate students for first semester.  |
| Sept.        | 21    | Wednesday, 11:00 A.M.—Formal opening of the University.   |
| Sept.        | 22    | Thursday—Instruction begins.  |
| Oct.         | 15    | Saturday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.  |
| Oct. 31-Nov. | 5     | French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations not later than October 18. |
| Nov.         | 7-12  | German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations not later than October 31. |
| Nov.         | 15    | Tuesday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.  |
| Nov.         | 24    | Thursday—Thanksgiving Day: a holiday.   |
| Dec.         | 11    | Sunday—Founders Day.  |
| Dec.         | 20    | Tuesday, 5:00 P.M.—Christmas recess begins.   |

1950

- |       |       |   |
|-------|-------|---|
| Jan.  | 4     | Wednesday, 8:00 A.M.—Instruction is resumed.  |
| Jan.  | 5-14  | Reading period.   |
| Jan.  | 11-14 | Wednesday through Saturday—Registration of graduate students for second semester.   |
| Jan.  | 18    | Wednesday—Mid-year examinations begin.  |
| Jan.  | 28    | Saturday—Mid-year examinations end.   |
| Feb.  | 1     | Wednesday—Second semester begins.   |
| March | 1     | Wednesday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.   |
| March | 6-11  | French examinations for candidates for graduate degrees. Candidates register in the Graduate School Office for these examinations not later than February 21. |
| March | 15    | Wednesday—Students who expect to receive advanced degrees in June must notify the Graduate Office before this date.   |
| March | 13-18 | German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations not later than March 7.            |

March	25	Saturday—Spring vacation begins.
April	3	Monday, 8:00 A.M.—Instruction is resumed.
April	15	Saturday—Last day for submitting theses for degree of Doctor of Philosophy.
May	1	Monday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
May	11-20	Reading period.
May	22	Monday—Final examinations, second semester, begin.
June	1	Thursday—Final examinations, second semester, end.
June	3	Saturday—Commencement begins.
June	4	Sunday—Commencement sermon.
June	5	Monday—Commencement address; Graduating exercises.



# 1949

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## OFFICERS OF ADMINISTRATION

---

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---

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- NIELSEN, WALTER MCKINLEY, (1925) B.S. in E.E., Ph.D.  
*Professor of Physics* 139 Pinecrest Road
- NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.  
*Professor of Physics* 2255 Cranford Road
- †OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.  
*Associate Professor of Botany* 2642 University Drive
- PATTERSON, ROBERT LEET, (1945) A.B., A.M., B.D., Ph.D.  
*Professor of Philosophy* 1040 W. Forest Hills Boulevard
- PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D., LL.D.  
*Professor Emeritus of Zoology* Chelsea Circle, Hope Valley
- PERLZWEIG, WILLIAM ALEXANDER, (1929) B.S., A.M., Ph.D.  
*Professor of Biochemistry* Hope Valley
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.  
*Professor of Education* 2106 Myrtle Drive
- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.  
*Professor of Political Science* 1107 Knox Street
- RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.  
*Professor of Economics* 133 Pinecrest Road
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D.  
*Professor of Psychology* 908 West Club Boulevard
- ROBERT, JOSEPH CLARKE, (1938) A.B., A.M., Ph.D.  
*Associate Professor of History* 1102 B Street
- ROBERTS, JOHN H., (1931) A.B., Ph.D.  
*Professor of Mathematics* 2813 Legion Avenue
- ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D., F.A.A.R.  
*Professor of Latin* 148 Pinecrest Road
- ‡SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D.  
*Professor of Education* 2247 Cranford Road
- SIMMONS, EDWARD C., (1947) A.B., A.M., Ph.D.  
*Associate Professor of Economics* 2510 Perkins Road
- SMITH, DAVID TILLERSON, (1930) A.B., M.D.  
*Professor of Bacteriology;*  
*Associate Professor of Medicine* Hope Valley
- SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D., Litt.D.  
*Professor of American Religious Thought* 1523 Hermitage Court

\* Died, August 18, 1948.

† Absent on sabbatical leave, first semester, 1948-49.

‡ Resigned, August 31, 1948.

- SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D.  
*Professor of Economics* 2236 Cranford Road
- \*SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.  
*Professor of Economics* 2240 Cranford Road
- \*SPONER, HERTHA, (1935) Ph.D.  
*Professor of Physics* Hope Valley
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D., Litt.D.  
*Professor of History* 116 Pinecrest Road
- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.  
*Professor of Mathematics* 2215 Cranford Road
- THOMPSON, EDGAR TRISTRAM, (1935) A.B., A.M., Ph.D.  
*Professor of Sociology* 138 Pinecrest Road
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.  
*Professor of German* 2114 Myrtle Drive
- VON BECKERATH, HERBERT, (1935) Ph.D.  
*Professor of Economics and Political Science* Hope Valley
- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.  
*Professor of Chemistry* 2319 Englewood Avenue
- †WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D.  
*Professor of English* 1003 Lamond Avenue
- WIDGERY, ALBAN GREGORY, (1930) B.A., M.A.  
*Professor of Philosophy* 152 Pinecrest Road
- WILBUR, KARL MILTON, (1946) A.B., A.M., Ph.D.  
*Associate Professor of Zoology* 2414 Club Boulevard
- \*WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D., LL.D.  
*Professor of Political Science* 717 Anderson Street
- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D.  
*Professor of Botany* 924 Urban Avenue
- WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.  
*Associate Professor of History* 2648 University Drive
- \*ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D.  
*Professor of Psychology* Sparger Road
- 
- ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D.  
*Professor of Botany* 1413 North Duke Street
- ALLEN, CLARK LEE, (1941-43, 1945, 1947) A.B., A.M., Ph.D.  
*Associate Professor of Economics* 626 Swift Avenue
- ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D.  
*Associate Professor of Botany* 2020 Sunset Avenue
- BEACH, WALDO, (1946) A.B., B.D., Ph.D.  
*Associate Professor of Christian Ethics* 100 Vineyard Street
- BEAL, JAMES ALLEN, (1939) B.S., M.S., Ph.D.  
*Professor of Forest Entomology* 2232 Cranford Road
- BERNHHEIM, FREDERICK, (1930) A.B., Ph.D.  
*Professor of Pharmacology* Woodridge Drive, Rockwood

\* Absent on sabbatical leave, first semester, 1948-49.

† Died, December 6, 1948.

- BERNHEIM, MARY LILAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Biochemistry* Woodridge Drive, Rockwood
- BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.  
*Professor of Accounting* 135 Pinecrest Road
- BOLMEIER, EDWARD CLAUDE, (1948) B.S., M.A., Ph.D.  
*Associate Professor of Education* Apt. No. 217, Faculty Apts.
- BOSLEY, HAROLD AUGUSTUS, (1947) A.B., B.D., Ph.D., D.D.  
*Professor of Philosophy of Religion* 1020 Urban Avenue
- BRADSHAW, CHARLES KILGO, (1939) A.B., M.A., Ph.D.  
*Assistant Professor of Chemistry* 2318 Englewood Avenue
- BRINKLEY, ROBERTA FLORENCE, (1947) A.B., A.M., Ph.D.  
*Professor of English* East Campus
- BROWN, FRANCES, (1931) A.B., Ph.D.  
*Associate Professor of Chemistry* 205 Jones Street
- CASTELLANO, JUAN RODRIGUEZ, (1947) Bach., Lic. en Fil. y Let., Doc. en Fil.  
*Associate Professor of Romance Languages* 805 Third Street
- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.  
*Professor of Education* 1019 West Markham Avenue
- CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D.  
*Professor of New Testament* 1308 West Markham Avenue
- COILE, THEODORE STANLEY, (1935) B.S.F., M.F., Ph.D.  
*Professor of Forest Soils* Hillsboro Road
- CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.  
*Professor of Mycology;*  
*Associate Professor of Bacteriology* Old Cornwallis Road
- CURTISS, JOHN SHELTON, (1945) A.B., A.M., Ph.D.  
*Associate Professor of History* 718 Vickers Avenue
- CUSHMAN, ROBERT E., (1945) A.B., B.D., Ph.D.  
*Professor of Systematic Theology* 2122 Englewood Avenue
- DAI, BINGHAM, (1943) A.B., A.M., Ph.D.  
*Lecturer in Psychiatry; Professor of Psychology (Part-time)* 1010 Monmouth Avenue
- \*DANN, WILLIAM JOHN, (1934) B.S., Ph.D.  
*Professor of Nutrition* 113 Pinecrest Road
- DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.  
*Associate Professor of Romance Languages* 2248 Cranford Road
- EADIE, GEORGE SHARP, (1930) M.A., M.B., Ph.D.  
*Professor of Physiology and Pharmacology* Hope Valley
- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.  
*Professor of Mathematics* 1003 Lamond Avenue
- EVERETT, JOHN WENDELL, (1932) A.B., Ph.D.  
*Associate Professor of Anatomy* 2605 University Drive
- GREULING, EUGENE, (1948) B.S., Ph.D.  
*Assistant Professor of Physics* Chapel Hill Road
- HANDLER, PHILIP, (1939) B.S., M.S., Ph.D.  
*Associate Professor in Biochemistry and Nutrition* 2307 Sprunt Street
- HANNA, FRANK ALLAN, (1948) A.B., Ph.M., Ph.D.  
*Associate Professor of Economics* 2239 Cranford Road

\* Died, December 5, 1948.

- HANSON, EARL, (1946) A.B., A.M., Ph.D.  
*Assistant Professor of Political Science* No. 2 Duke Univ. Apts.,  
 Markham and Fifth Sts.
- HARRAR, ELWOOD SCOTT, (1936) B.S., M.S., Ph.D.  
*Professor of Wood Technology* 2228 Cranford Road
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.  
*Professor of Anatomy* Hope Valley
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.  
*Associate Professor of Chemistry* Route No. 2
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Chemistry* 115 Pinecrest Road
- HORN, EDWARD C., (1946) B.S., A.M., Ph.D.  
*Assistant Professor of Zoology* 2509 Cascadilla Street
- HUMPHREY, DON DOUGAN, (1945) A.B., Ph.D.  
*Professor of Economics* 2802 Legion Avenue
- HUNTER, WANDA SANBORN, (1947) A.B., M.S., Ph.D.  
*Associate Professor of Zoology* Faculty Apartments
- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.  
*Assistant Professor of Zoology* 1006 Turrentine Street
- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.  
*Professor of German* 2118 Englewood Avenue
- LABARRE, WESTON, (1946) A.B., Ph.D.  
*Associate Professor of Anthropology* 1311 Alabama Avenue
- LEARY, LEWIS, (1941) B.S., A.M., Ph.D.  
*Associate Professor of American Literature* 2106 Woodrow Street
- MCCREA, FOREST DRAPER, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Physiology and Pharmacology* 1023 Demerius Street
- McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.  
*Assistant Professor of Philosophy* 1408 Duke University Road
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.  
*Associate Professor of History* 2016 Myrtle Drive
- MARKEE, JOSEPH ELDRIDGE, (1943) B.S., Ph.D.  
*Professor of Anatomy* 1015 Demerius Street
- MARKMAN, SIDNEY D., (1947) A.B., Ph.D.  
*Assistant Professor of Art* Duke University Apts.,  
 Markham and Fifth
- MARTIN, DONALD STOVER, (1932) A.B., M.D.  
*Professor of Preventive Medicine and Public Health and*  
*Associate Professor of Bacteriology* 2208 Pershing Street
- NAHM, HELEN, (1946) R.N., A.B., M.A., Ph.D.  
*Professor of Nursing Education and*  
*Director, Division of Nursing Education* Faculty Apartments
- NEURATH, HANS, (1938) Ph.D.  
*Professor of Physical Biochemistry* 2505 Club Boulevard
- ORSINI, NAPOLEONE GIORDANO, (1947) Ph.D.  
*Visiting Professor of English* Faculty Apartments Annex
- PARKER, HAROLD TALBOT, (1939) A.B., Ph.D.  
*Assistant Professor of History* Glenn Apartments
- PEELE, TALMAGE LEE, (1939) A.B., M.D.  
*Associate Professor of Anatomy* University Apartments



- PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.  
*Associate Professor of Botany* 2302 Cranford Road
- PETRY, RAY C., (1937) A.B., A.M., Ph.D., LL.D.  
*Professor of Church History* 128 Pinecrest Road
- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.  
*Professor of Mathematics* 1011 Gloria Avenue
- ROPP, THEODORE, (1938) A.B., A.M., Ph.D.  
*Associate Professor of History* 302 Woodridge Drive
- ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.  
*Assistant Professor of Latin and Greek* 603 Watts Street
- RUDISILL, MABEL F., (1948) A.B., M.A., Ph.D.  
*Associate Professor of Education* 813 Second Street
- RUNDLES, RALPH WAYNE, (1945) A.B., Ph.D., M.D.  
*Assistant Professor of Medicine* 132 Pinecrest Road
- SAWYER, CHARLES HENRY, (1944) A.B., Ph.D.  
*Associate Professor of Anatomy* 2119 Englewood Avenue
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.  
*Professor of Chemistry* 707 Club Boulevard
- SCHETTLER, CLARENCE HENRY, (1946) A.B., A.M., Ph.D.  
*Associate Professor of Sociology* 2162 Guess Road
- SCHUMACHER, FRANCIS X., (1937) B.S.  
*Professor of Forestry* 6 Sylvan Road
- SCHWERT, GEORGE W., JR., (1946) A.B., Ph.D.  
*Assistant Professor of Biochemistry* 615 Colgate Avenue
- SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D.  
*Assistant Professor of German* 917 Green Street
- SMITH, WILLIAM V., (1946) B.S., Ph.D. No. 9 Duke University Apts.,  
*Associate Professor of Physics* Markham and Fifth
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D., Litt.D.  
*Professor of Biblical Literature and Religious Education* Hope Valley
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.  
*Professor of Old Testament* 1107 Watts Street
- STUMPF, WIPPERT A., (1948) B.S., M.A., Ph.D.  
*Associate Professor of Education* 127 Pinecrest Road
- \*TALBERT, ERNEST WILLIAM, (1942) A.B., A.M., Ph.D.  
*Associate Professor of English* Faculty Apartments
- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Biochemistry and Toxicology* University Drive, Rockwood
- THOMSON, ROY BERTRAND, (1938) B.S., M.F., Ph.D.  
*Professor of Forest Economics* 2243 Cranford Road
- TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Greek* Faculty Apartments
- VAN WAGENEN, RICHARD WHITMORE, (1947) A.B., M.S., Ph.D.  
*Associate Professor of Political Science* 2017 Sprunt Street
- †WADE, LUTHER IRWIN, (1943) A.B., Ph.D.  
*Assistant Professor of Mathematics* 1505 Alabama Avenue

\* Absent on sabbatical leave, second semester, 1948-49.

† Resigned, June 30, 1948.

WALTON, LORING BAKER, (1929) A.B., Lic. ès L., Ph.D. <i>Professor of Romance Languages</i>	2235 Cranford Road
WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D. <i>Associate Professor of English</i>	Perkins Road
WAY, VERNON ELGIN, (1930) A.B., A.M., M.A. <i>Assistant Professor of Greek</i>	918 Urban Avenue
WHARTON, GEORGE WILLARD, JR., (1939) B.S., Ph.D. <i>Assistant Professor of Zoology</i>	1202 Oval Drive
*WILSON, ROBERT NORTH, (1910) A.B., M.S. <i>Professor of Chemistry</i>	822 Third Street
YOUNG, FRANKLIN WOODROW, (1945) A.B., B.D., Ph.D. <i>Assistant Professor of Biblical Theology</i>	No. 13, Duke University Apts., Markham and Fifth Streets

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HUMM, HAROLD JUDSON, (1942) B.S., A.M., Ph.D. <i>Director, Duke Marine Laboratory</i>	Beaufort, N. C.
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## ANGIER DUKE MEMORIAL FELLOWSHIP

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
RUDIN, WALTER A.B., A.M., Duke University	Mathematics	New York, N. Y.

## GURNEY HARRISS KEARNS FELLOWSHIPS IN RELIGION

HUSTON, HOLLIS WILBURN A.B., Willamette University; B.D., Duke University	Religion	Salem, Ore.
WETHINGTON, LEWIS ELBERT B.A., Wake Forest College; B.D., Duke University	Religion	Durham, N. C.

## UNIVERSITY FELLOWS

BEATSON, JAMES ALLEN A.B., A.M., Duke University	History	Manning, S. C.
CUCULO, JOHN ANTHONY B.S., Brown University	Chemistry	Durham, N. C.
†FROSTICK, FREDERICK CHARLES, JR. B.S., Duke University	Chemistry	Maxton, N. C.
FULTON, LEWIS McLEOD, JR. B.A., Mt. Allison University; A.M., Duke University	Mathematics	Durham, N. C.
GENTRY, IVEY CLENTON B.S., Wake Forest College; B.S., New York University; A. M., Duke University	Mathematics	Roxboro, N. C.
GOAD, WALTER BENSON, JR. B.S., Union College	Physics	Kinston, N. C.
GORDON, MORRIS AARON B.S., The College of the City of New York; M.S., The University of Chicago	Botany	Jamaica, N. Y.
HOLT, ROBERT LE ROI B.A., M.A., Wake Forest College	Religion	Durham, N. C.
KEEVER, NANCY CATHERINE A.B., A.M., Duke University	Botany	Stony Point, N. C.

\* Retired, June, 1948.

† Resigned, February 1, 1949.

## DUKE UNIVERSITY

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<i>Name</i>	<i>Department</i>	<i>Home Address</i>
KYLE, JOSEPH BURCH A.B., Linfield College; A.M., University of Oregon	History	Eugene, Ore.
LEHMANN, DOLORES A.B., Brooklyn College; A.M., Columbia University	Zoology	Brooklyn, N. Y.
NEWBERRY, EUGENE WILSON A.B., Denison University	Religion	New Boston, Ohio
PIERSON, ROBERT MALCOLM A.B., DePauw University; A.M., Duke University	English	Greencastle, Ind.
REYNOLDS, GEORGE ARTHUR B.S., University of Florida	Chemistry	West Palm Beach, Fla.
SMITH, LAWRENCE JOSEPH B.S. in Agr. Econ., Iowa State College	Education	Richwood, W. Va.
STONE, EDWARD B.A., M.A., University of Texas	English	Newark, N. J.
SUTCLIFFE, WILLIAM HUMPHREY, JR. A.B., Emory University; A.M., Duke University	Zoology	Miami, Fla.
TAYLOR, ORVILLE WALTERS A.B., Ouachita College; M.A., University of Kentucky	History	Little Rock, Ark.
WILES, CHARLES PRESTON A.B., Washington College	Religion	Brunswick, Md.

## GRADUATE ASSISTANTS

ADAMS, MARTHA JEAN B.A., Woman's College, University of North Carolina	Romance Languages	Winston-Salem, N. C.
ALFRIEND, GENEVIEVE B.A., Mary Washington College	Romance Languages	Charles Town, W. Va.
ALLEN, WILLIAM RICHARD B.A., Cornell College, Iowa	Economics	Chicago, Ill.
BALL, CARROLL RAYBOURNE B.A., M.S., University of Mississippi	Zoology	Montrose, Miss.
BASHAM, JANET GRAY BROOKS A.B., Woman's College, University of North Carolina	Psychology	Greensboro, N. C.
BATTLE, GUY ARTHUR, JR. A.B., A.M., Duke University	English	Sumter, S. C.
BENNETT, WILLIAM LEFFIS B.A., Wake Forest College	History	Shalotte, N. C.
BERGER, SUZANNE HARDING B.S., George Washington University	Zoology	Cobleskill, N. Y.
BIRGE, WILLIAM ROOT A.B., Princeton University	Psychology	Northampton, Mass.
BONNEN, JAMES THOMAS B.A., Texas Agricultural and Mechanical College	Economics	College Station, Texas
BORMANN, FREDERICK HERBERT B.S., Rutgers University	Botany	Westwood, N. J.
BROWNELL, ROBERT FOOTE, JR. B.A., Williams College	Physics	Jamestown, N. Y.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
BURKHALTER, JAMES HERBERT A.B., Emory University; M.S., Georgia School of Technology	Physics	Rome, Ga.
BUSSELL, WILSIE FLORENCE A.B., A.M., Duke University	Romance Languages	Durham, N. C.
CANON, ALFRED ORVILLE, JR. A.B., Southwestern at Memphis	Political Science	Memphis, Tenn.
CATO, BENJAMIN RALPH, JR. A.B., Duke University	Mathematics	Charlotte, N. C.
CHREITZBURG, AUGUSTUS MCKEE, JR. B.S., Wofford College	Chemistry	Spartanburg, S. C.
COFRESI, EMILIO B.A., West Virginia University; M.A., University of Illinois	Sociology	Mayaguez, Puerto Rico
COX, DON KNOWLTON B.S., University of Nevada	Botany	Reno, Nev.
*CREAMER, BOYCE HARRY A.B., Furman University; Th.B., God's Bible College; M.A., University of Tennessee	Sociology	Anderson, S. C.
CROWELL, ROBERT MERRILL A.B., M.A., Bowling Green University	Zoology	Canton, Ohio
DAVIS, MARGRET LEONE B.A., Hunter College	Sociology	New York, N. Y.
DELHOMME, GEORGE ARTHUR, JR. B.A., University of Toronto	English	Houston, Texas
ELLIOTT, DON RINGGOLD B.A., Henderson State Teachers College	Political Science	Arkadelphia, Ark.
FARTHING, CARRIE LEE B.S., Appalachian State Teachers College	English	Boone, N. C.
FARTHING, MADELINE A.B., Woman's College, University of North Carolina; M.Ed., Duke University	Education	Sugar Grove, N. C.
GANNON, PHILIP JEROME B.A., Albion College	Zoology	Detroit, Mich.
GANTZ, BESSIE MCGLOTHLIN B.S. in Ed., State Teachers College, Farmville, Virginia	Education	Ballsville, Va.
GOLDSTONE, SANFORD B.S., The College of the City of New York	Psychology	New York, N. Y.
GORDON, HAROLD DUNBAR B.S., Wheaton College	Political Science	Bridgehampton, N. Y.
GREEN, CLAUD BETHUNE A.B., M.A., University of Georgia	English	Clemson, S. C.
GREEN, RALPH TILLMAN A.B., M.S., Agricultural and Mechanical College of Texas	Economics	Paxton, Texas
GREENHOW, CHARLES RICHARD B.S. in E.E., North Carolina State College	Physics	Covington, Ky.
GUSTAFSON, OSCAR THADDEUS M.A., Macalester College	Education	Panama City, Fla.

\* Resigned, February 1. 1949.



## DUKE UNIVERSITY

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<i>Name</i>	<i>Department</i>	<i>Home Address</i>
HANCE, CHARLES ROBERT B.S., University of Illinois	Chemistry	Marengo, Ill.
HANCOCK, CAROLYN LOIS A.B., Georgia State College for Women	Sociology	Atlanta, Ga.
HARRIS, JAMES THURLOE, JR. B.S., The Citadel	Chemistry	Spartanburg, S. C.
HARRIS, ROBERT LEIGH A.B., A.M., University of Alabama	History	Tuscaloosa, Ala.
HERBST, ROBERT TAYLOR A.B., Duke University ; M.S., North Carolina State College	Mathematics	Newport News, Va.
HOGUE, PHYLLIS A.B., Connecticut College	English	Elizabeth, N. J.
HONES, EDWARD WHEELER, JR. B.S., Duke University	Physics	Durham, N. C.
JAMES, KEITH WARREN B.A., Wake Forest College	Philosophy	Oakboro, N. C.
*JONES, NORMA LOUISE B.A., Hiram College	Romance Languages	Orwell, Ohio
JONES, ORA MELINDA MARDELL A.B., University of Georgia	Psychology	Jonesboro, Ga.
JUDGE, WILLIAM ARTHUR B.S., Loyola College	Chemistry	Baltimore, Md.
KEIRCE, WILLIAM F. B.M.E., University of Louisville	English	Louisville, Ky.
KOHN, EDWARD MAURICE B.S., The College of the City of New York	Chemistry	New York, N. Y.
LABORDE, IRENE B.A., M.A., University of South Carolina	English	Columbia, S. C.
LANDAU, LAWRENCE B.S., The College of the City of New York	Chemistry	New York, N. Y.
LANGEN, ROBERT FRANCIS A.B., Duke University	Psychology	Durham, N. C.
LAWTON, ROBERT OSWALD, JR. A.B., A.M., Duke University	English	Greenwood, S. C.
LEWIS, EDITH WINIFRED A.B., Georgia State College for Women	Sociology	Vidalia, Ga.
LIND, EDWARD LOUIS Sc.B., Brown University ; A.M., Duke University	Chemistry	Whitestone, L. I.
MCCAIN, PAUL MOFFATT B.A., Erskine College ; A.M., Duke University	History	Decatur, Ga.
MCCOURY, PHILLIP DEWEY B.A., Reed College	Economics	Chicago, Ill.
MAGNER, BERTHA ARDYS B.S., University of Miami	Zoology	Miami, Fla.
MANLOVE, GEORGE KENDALL B.A., M.A., Oberlin College	English	Chagrin Falls, Ohio

\* Resigned, February 28, 1949.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
*MARTIN, JAMES EDWIN A.B., Mercer University; M.S., University of Georgia	Physics	Waynesboro, Ga.
MEEKS, MARION LITTLETON B.S., M.S., Georgia School of Technology	Physics	Atlanta, Ga.
MUNSTER, RALF F. W. A.B., Duke University	Philosophy	Savannah, Ga.
NEASE, FELTON REESE B.A., M.S., University of Oklahoma	Botany	Lawton, Okla.
OLIVER, JOHN BURRELL A.B., A.M., University of North Carolina	History	College Park, Ga.
PORTER, BERNARD B.S., The College of the City of New York	Chemistry	Bronx, N. Y.
PORTER, HARDIN KIBBE B.S., University of Texas; M.S., Georgia School of Technology	Chemistry	Philadelphia, Pa.
POTTER, RICHARD AUSTIN B.S., Rollins College	Chemistry	Winter Park, Fla.
REECE, JAMES BRADY A.B., The Johns Hopkins University	English	Lenoir, N. C.
RENTZ, THOMAS EUGENE A.B., Duke University	Romance Languages	Columbus, Ga.
RHODES, STANLEY ALLEN B.S. in Ed., A.M., University of Virginia	Zoology	Norfolk, Va.
ROBERTSON, PATRICIA RUTH B.A., Smith College	English	Washington, D. C.
ROSOFF, MORTON B.A., Brooklyn College	Chemistry	Brooklyn, N. Y.
RUST, NONA MARTIN B.A., Huntington College	German	Columbus, Ga.
SASTRI, M. LAKSHMI N. B.Sc., M.Sc., Benares Hindu University	Physics	Madras Province, India
SCHMIDT-BAEUMLER, LUISE A.B., Swarthmore College	Zoology	New York, N. Y.
SIDDALL, THOMAS HENRY, III A.B., University of North Carolina; M.S., University of Chicago	Chemistry	Sumter, S. C.
SILVA, JOSEPH ANDREW B.S., Northeastern University	Mathematics	Lexington, Mass.
STALZER, ROBERT FREDERICK B.S., Kent State University	Chemistry	Cuyahoga Falls, Ohio
STINSON, EDGAR FRANKLIN, JR. B.A., M.S., East Texas State Teachers College	Chemistry	Marshall, Texas
SULZER, RICHARD LEE A.B., Duke University	Psychology	South Norwalk, Conn.
SWERLICK, ISADORE A.B., Temple University	Chemistry	Philadelphia, Pa.
TARLTON, WILLIAM SAMUEL B.A., M.A., Wake Forest College	History	Marshville, N. C.

\* Resigned, November 30, 1948.

## DUKE UNIVERSITY

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<i>Name</i>	<i>Department</i>	<i>Home Address</i>
*TERRELL, JAMES ELMER B.A., University of Arkansas	English	Huttig, Ark.
THOMPSON, EARLE CROSLAND A.B., Union University, Jackson, Tennessee	History	Plantersville, Miss.
THUMM, BYRON ASHLEY B.S., Morris-Harvey College	Chemistry	Charleston, W. Va.
TROUTMAN, WILLIAM FIFE, JR. B.S., Western Carolina Teachers College; A.M., Duke University	Political Science	Asheville, N. C.
TYCZKOWSKI, EDWARD ALBERT B.Sc., Brown University	Chemistry	Apponaug, R. I.
†WALTER, EUGENE VICTOR B.A., University of Miami	Political Science	Miami Beach, Fla.
WEINGARTNER, RUSSELL CLARENCE B.A., University of Cincinnati	Romance Languages	Newport, Ky.
WEST, DORIS EILENE A.B., Earlham College; A.M., Ohio State University	Sociology	Portsmouth, Ohio
†WILLIS, HULON SIMS A.B., Piedmont College; A.B., M.A., University of California	English	Norman Park, Ga.
WOODRESS, JAMES LESLIE, JR. A.B., Amherst College; A.M., New York University	English	Durham, N. C.
ZITNER, SHELDON PAUL B.A., Brooklyn College; M.A., New York University	English	Brooklyn, N. Y.

## GRADUATE SCHOLARS

ABBOT, WILLIAM WRIGHT, III A.B., University of Georgia	History	Louisville, Ga.
BELLAMY, VIRGINIA NELLE B.S., East Tennessee State College	Religion	LaFollette, Tenn.
BENEDICT, MARGARET ANN B.A., Vassar College	Political Science	Chevy Chase, Md.
DAIL, BERNARD EUGENE A.B., Duke University	Economics	Kinston, N. C.
†GEORGIAD, RUTH SAUER A.B., Barnard College of Columbia University	Physiology	Durham, N. C.
GITLIN, EMMANUEL M. B.A., Texas Christian University; B.D., Duke University	Religion	Durham, N. C.
GOUGH, CAROLYNE FRANCES B.A., Marshall College	Political Science	Beechhurst, L. I.
HAMRICK, EMMETT A.B., University of North Carolina	Religion	Shelby, N. C.
HOBBS, GRIMSLEY TAYLOR A.B., Guilford College	Philosophy	Chapel Hill, N. C.
HOLLYDAY, FREDERICK BLACKMAR MUMFORD A.B., Washington and Lee University	History	Michaels, Md.

\* Resigned, December 3, 1948.

† Resigned, February 1, 1949.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
KING, DORIS ELIZABETH A.B., Georgia State Woman's College at Valdosta; A.M., Duke University	History	Cairo, Ga.
MACKEY, LOUIS HENRY, JR. A.B., Capital University	Philosophy	Sidney, Ohio
MEEK, RAY BURNS B.A., Marshall College	Philosophy	Catlettsburg, Ky.
*POLAYES, IRVING MARTIN A.B., Duke University	Biochemistry	New Haven, Conn.
PUGH, OLIN SHARPE B.S., University of South Carolina	Economics	Prosperity, S. C.
RICHTER, MELISSA LEWIS A.B., Sarah Lawrence College	Biochemistry	White Plains, N. Y.
SHIH, CHUNG-WEN B.S., St. Johns University, Shanghai, China	English	Shanghai, China
SHUFORD, HAYWOOD RHYNE, JR. B.A., Wake Forest College	Philosophy	Dallas, N. C.
SMART, HUGH ROBERT GEORGE A.B., McGill University	Philosophy	Quebec, Canada
SPEARMAN, ELOISE LENORE A.B., George Washington University	Political Science	Washington, D. C.
TERRELL, KATHERINE A.B., Duke University	History	Jacksonville, Fla.
THOMAS, MARY OLIVE B.A., Agnes Scott College; A.M., University of North Carolina	English	Auburn, Ala.
WAGNER, FRED REESE A.B., Duke University	English	Haddonfield, N. J.
WHITEHEAD, MARY ELIZABETH A.B., Birmingham-Southern College	Romance Languages	Birmingham, Ala.
WINER, RUTH CECILE A.B., Queens College	Economics	Flushing, N. Y.

### RESEARCH ASSOCIATES, FELLOWS, AND ASSISTANTS

#### DEPARTMENT OF CHEMISTRY

##### Research Associate, Office of Naval Research

<i>Name</i>	<i>Home Address</i>
ZILSEL, PAUL R. B.S., Charleston University; M.S., University of Wisconsin; Ph.D., Yale University	Durham, N. C.

##### Allied Chemical and Dye Corporation Fellow

HAUPTSCHIEIN, MURRAY B.S., College of the City of New York	New York, N. Y.
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##### Carbide and Carbon Chemicals Corporation Fellow in Organic Chemistry

SANDERSON, JAMES J. B.S., Massachusetts State College; M.S., University of Connecticut	Stamford, Conn.
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\* Resigned, November 29, 1948.



## Department of Army Fellows

<i>Name</i>	<i>Home Address</i>
GRANTHAM, RAYMOND JACK B.Ed., Eastern Illinois State Teachers College	Mattoon, Ill.
McCALLUM, SARA GREY B.S., Southwestern College at Memphis	Ripley, Tenn.

## du Pont Post-graduate Fellow in Chemistry

MYERS, RICHARD HAROLD B.S. in Chem., University of Virginia	Broadway, Va.
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## Eli Lilly Fellow

WEISS, MARTIN JOSEPH B.A., New York University	New York, N. Y.
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## Industrial Research Fellows

HACKNEY, EDWARD JUNE B.S., Duke University	Durham, N. C.
TSAI, TZE-TING B.Chem.E., Nankai University	Shanghai, China

## Office of Naval Research Fellows

BOND, JEAN A.B., Duke University	Durham, N. C.
CHERRY, LEONARD VICTOR B.S., The College of the City of New York	New York, N. Y.
CHREITZBERG, AUGUSTUS M., JR. B.S., Wofford College	Spartanburg, S. C.
FERRELL, DOCTOR THOMAS, JR. B.S., Eastern Kentucky State Teachers College; A.M., Duke University	Richmond, Ky.
GILBERT, MRS. MARY JO B.S., Duke University	Shaker Heights, Ohio
GILBERT, ALFRED R. B.S., University of Richmond; A.M., Duke University	Kenneth, Mo.
JENNINGS, CHARLES W. B.Engr., University of Toledo; M.S., University of California	Durham, N. C.
JOHNSON, RICHARD S. B.S., M.S., Illinois Institute of Technology	Maywood, Ill.
KANTOR, SIMON WILLIAM B.S., College of the City of New York	New York, N. Y.
MAN, EUGENE H. B.A., Oberlin College	Scranton, Pa.
POTTER, JOHN CLARKSON B.S., University of Washington	Durham, N. C.
PUTERBAUGH, WALTER HENRY, JR. A.B., Duke University	Johnstown, Pa.
SWAMER, FREDERIC WURL B.A., Lawrence College; M.A., University of Wisconsin	Appleton, Wis.
WEINHEIMER, ALFRED B.S., M.S., Canisius College	Buffalo, N. Y.

## DUKE UNIVERSITY

## Public Health Service Graduate Fellow

## Name

## Home Address

KITTILA, RICHARD SULO  
B.S., University of Minnesota; A.M., Duke University

Ely, Minn.

## Research Assistants

LAWTON, MRS. ELISE  
B.S., Winthrop College

Durham, N. C.

POTTER, MRS. R. A.  
A.B., Rollins College

Winter Park, Fla.

## SCHOOL OF MEDICINE

## Research Associate in Biochemistry

MOMMAERTS, W. F. H. M.  
M.A., University of Leiden; Ph.D., Klausenburg

The Hague, Holland

## U. S. Public Health Service Postdoctorate Fellow

KAMIN, HENRY  
B.S., The College of the City of New York; Ph.D., Duke University

Brooklyn, N. Y.

## U. S. Public Health Service Predoctorate Fellows

KAUFMAN, SEYMOUR  
B.S., M.S., University of Illinois

Brooklyn, N. Y.

SNOKE, JOHN EDWARD  
B.S., University of Illinois

Durham, N. C.

## Nutrition Foundation Fellow

ROSEN, FRED  
B.S., University of Wisconsin

Irvington, N. J.

## Atomic Energy Commission Predoctoral Fellow in Biochemistry

COHN, DAVID V.  
B.S., The College of the City of New York

New York, N. Y.

## Research Assistants in Biochemistry

DRATZ, ARTHUR F.  
A.B., Duke University

Oak Hill, N. Y.

EISENBERG, MAX AARON  
B.A., Brooklyn College; M.S., New York University

Brooklyn, N. Y.

HUNTER, SYLVIA  
B.A., Brooklyn College; M.S. in Public Health, University of North Carolina, School of Public Health

Brooklyn, N. Y.

LEDER, IRWIN  
B.A., Brooklyn College; M.S., New York University

Brooklyn, N. Y.

RICHTER, MELISSA LEWIS  
B.A., Sarah Lawrence College

White Plains, N. Y.

## DEPARTMENT OF PHYSICS

## Research Associate

NORDHEIM, GERTRUD P.  
Ph.D., University of Goettingen

Durham, N. C.

## Research Fellows

<i>Name</i>	<i>Home Address</i>
ANDERSON, ROY S. B.A., Clark University	Agawam, Mass.
BASS, ARNOLD MARVIN B.S., The College of the City of New York; A.M., Duke University	Forest Hills, N. Y.
CARTER, ROBERT LEROY B.S., University of Oklahoma	El Reno, Okla.
COOPER, C. DEWEY B.S., Berry College	Rome, Ga.
EDWARDS, HOWARD DAWSON B.S., University of Georgia	Bogart, Ga.
GILLIAM, OTIS RANDOLPH B.S., Randolph-Macon College	Smithfield, Va.
GOOD, MYRON L. B.A., University of Buffalo	Buffalo, N. Y.
HOPKE, ERNEST R. B.S., College of Charleston; M.A., Duke University	Charleston, S. C.
HOWARD, RAYDEEN B.S., University of Georgia; M.A., Duke University	Canton, Ga.
JOHNSON, CHARLES M. B.E., Vanderbilt University	Nashville, Tenn.
RUSH, JOSEPH HAROLD B.A., M.A., University of Texas	Washington, D. C.
UNTERBERGER, ROBERT RUPPE B.S., Syracuse University	Jersey City, N. J.
<b>Frederick Gardner Cottrell Research Fellow</b>	
RING, HAROLD FRANCIS B.S., Massachusetts Institute of Technology	Brighton, Mass.

# GRADUATE INSTRUCTION IN DUKE UNIVERSITY

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## ADMISSION

### TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree from an institution of recognized standing for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided that his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.

All new applicants for admission to graduate courses are now required to take the Graduate Record Examination before they can be admitted. In cases where it is not possible to take the Examination before arrival at Duke University and where the transcript of work taken elsewhere clearly shows that the student is otherwise eligible, the Examination may be taken the first time it is given here after the student's arrival. Students may make their arrangements for taking this Examination directly with the Graduate Record Office, 437 West 59th Street, New York 19, N. Y. Examinations are conducted several times each year at centers distributed throughout the United States and Canada, and wherever possible students should apply to such a center for the Examination.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a semester not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the semester graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education if registered in the Graduate School Office at the beginning of the term and if the student meets the requirements below for formal admission to the Graduate School.

A candidate for admission to graduate courses should ask the proper officer of the college, or colleges, he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work completed by him. Students who have attended more than one college or university should note that certification by one institution of work completed at another institution cannot be accepted. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student.

An application blank for admission will be provided upon request to



the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School by August 1 for admission in the autumn semester and by January 1 for admission in the spring semester.

Letters of recommendation are required of each candidate for admission. The applicant should ask two or three professors qualified to speak of his promise as a graduate student to write letters of appraisal to Dr. Paul Gross, Dean of the Graduate School of Arts and Sciences, Duke University, Durham, North Carolina.

#### TO THE GRADUATE SCHOOL

After twelve semester hours of graduate courses, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University.\* Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with its requirements and are acceptable to the major department.

A graduate student may be requested to withdraw from the University at the discretion of the Dean of the Graduate School.

#### REGISTRATION

Before actually registering in the Graduate School Office, the student who is admitted to graduate courses should consult with the Director of Graduate Studies or his representative in the department in which he proposes to major and receive written approval of his schedule of courses. This can be done during the registration period in September and January. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. Students who have fulfilled the minimum residence requirements for the doctorate but who are continuing resident study at Duke University for the degree should register in the Graduate School Office.

New students are advised to arrive early during the registration period in order to formulate their programs. *Anyone registering for courses after the close of the regular registration period will be charged a late registration fee of five dollars.*

\* In meeting the requirements for the A.B. or B.S. degree at Duke University, a student is not allowed excessive concentration in any one field. The same principle is applied in evaluating the undergraduate record of candidates for admission to the Graduate School.

**TUITION AND FEES****GENERAL FEES IN THE ACADEMIC YEAR**

The following table shows the general fees and charges collected from all students. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester. No student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

Tuition, per semester.....	\$175.00
General Fee,* per semester.....	60.00
Room-rent—See detailed statement on pages 29-30.	
Athletic Fee, not including Federal Tax, Optional, per semester.....	5.00
Special Dissertation Fee, payable by candidates for Ph.D. degree in the last semester before the degree is granted. Returned on satisfactory publication of thesis. See page 37.....	50.00

**SPECIAL FEE**

An administrative fee is charged in connection with special graduate research work in the summer under direction of a member of the Faculty.

**STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL**

Under an experimental plan of co-operation between the University of North Carolina and Duke University, students regularly enrolled in the University of North Carolina Graduate School and paying full fees to that institution may be admitted to courses in the Duke University Graduate School on payment of a registration fee of two dollars and any other special fees which are required of all students.

**TRANSCRIPTS**

A student desiring to transfer from Duke University to another institution is entitled to one free transcript of his record. A charge of one dollar, payable in advance, is made for each additional copy. Transcripts of students who enroll in graduate courses only in the summer sessions are issued by the Summer Session Office prior to the fulfillment of all requirements toward an advanced degree, after which time they can be obtained in the regular way from the Graduate School.

**PAYMENTS TO FELLOWS, SCHOLARS, AND GRADUATE ASSISTANTS**

Payments by the University of stipends to fellows, scholars, and graduate assistants are made in four equal installments, at approximately the middle and end of each semester. Tuition fees are charged against the stipends.

Fellows and scholars are required to pay the regular tuition and fees and are expected to take a full program of work. Assistants who are permitted to register for only four fifths of a regular program are charged a proportionate amount of the tuition in addition to the regular matriculation and other fees.

\* General Fees, in lieu of most special charges, include the following fees: Matriculation, Medical, Library, Damage, Commencement, Diploma, and an average of the Laboratory and Materials Fees.

**SPECIAL CHARGES FOR TEACHERS AND OTHERS**

For the purpose of aiding North Carolina teachers in their professional preparation, Duke University grants a special tuition rate to members of the faculties of neighboring schools and colleges who desire to register during the regular academic session for one or two graduate courses. For such courses a teacher regularly employed and teaching while taking these courses is charged a registration fee of five dollars at the beginning of each semester and a tuition fee of five dollars and twenty-five cents per semester hour of course credit. Under this provision a student may not register for more than seven semester hours each semester.

Employees of Duke University who are paid on a monthly basis throughout the year, ministers of neighboring churches, and wives of the Duke Faculty may be included under the above provisions by the Dean of the Graduate School, provided that such persons do not receive residence credit in any semester for more than two fifths of a regular program in meeting the requirements for advanced degrees.

The special tuition rate for teachers does not apply to the holders of fellowships, graduate scholarships, and graduate assistantships annually awarded in the Graduate School, nor to teachers on leave of absence and not actually engaged in their teaching at the time of registration.

**LIVING ACCOMMODATIONS AND EXPENSES****ROOMS**

On the West Campus a graduate building, Few Quadrangle, was opened in September, 1939, with accommodations sufficient to meet the requirements of the men in the Graduate School and in the professional schools. Special sections are reserved for those registered in the Graduate School of Arts and Sciences. On the Woman's College Campus a limited number of rooms in the Faculty Apartments is available to women registered in the Graduate School. Students' rooms, both on the Woman's College Campus and on the West Campus, are supplied with all necessary furniture. The student should plan to provide his own towels, sheets, pillows, pillowslips, bedcoverings, and table lamp.

Rooms for men in the graduate dormitory on the West Campus vary in rent between \$50.00, \$62.50, \$75.00, and \$87.50 per semester. In the Faculty Apartments on the Woman's College Campus, a single room rents for \$87.50 per semester, a double room for \$62.50 per semester per person.

Rooms are reserved only for students who have been officially admitted to graduate courses by the University. They are rented for no shorter period than one semester. The occupancy of a room for less than one semester will be charged at the rate of one dollar each day unless the student makes the necessary arrangements with the Housing Bureau before occupying the room. The minimum charge is \$25.00. Application for rooms should be made to the Housing Bureau, Duke Station, Durham, N. C. A room reservation fee of \$25.00 is required for a definite room assignment. The reservation fee is deducted from the room charges at the time of registration. Those who make application and are accepted will not be entitled to have the reservation fee refunded unless the re-

quest for refund is made at least 60 days prior to the date for registration for the semester. Early application for a dormitory room is essential if the student wants to be assured of living accommodations on the campus.

A resident student who wishes to retain his room for the succeeding semester must pay a reservation fee of \$25.00 on or before an announced date. All rooms which have not been reserved by that date will be considered vacant for the succeeding semester. When a room is once engaged by a student, no changes will be permitted except with the consent of the Housing Bureau.

Graduate students are required to observe the same general regulations as undergraduate students with respect to the use of the rooms. Leaving one room and occupying another without permission is strictly forbidden and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is not allowed.

The University does not assume the responsibility for the personnel selected as roommates, though it will gladly render any assistance possible in the matter.

#### DINING SERVICE

Food service on both the Woman's College Campus and the West Campus is cafeteria style. The cost of meals approximates \$1.25 to \$1.75 per day depending upon the need and taste of the individual. The dining facilities on the West Campus include three cafeterias with multiple choice menus and, in addition, the Oak Room where full meals and *à la carte* items are served.

#### ESTIMATED EXPENSES IN THE ACADEMIC YEAR

The necessary expenses of a graduate student are moderate. The University dormitories and Unions provide comfortable and wholesome living conditions at a minimum cost. Incidental expenses for recreation, traveling, clothes, and other items naturally depend on the tastes and habits of the individual. The table below lists the necessary college expenses for one year for a full program of work:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$350.00	\$ 350.00	\$ 350.00
General Fee .....	120.00	120.00	120.00
Room-rent .....	100.00	125.00	175.00
Board .....	300.00	375.00	425.00
Laundry .....	25.00	30.00	35.00
Books .....	22.50	30.00	45.00
	<hr/> \$917.50	<hr/> \$1,030.00	<hr/> \$1,150.00

#### FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

For the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships, scholarships and assistantships with stipends ranging from \$450 to \$1,600. Holders of these awards will be expected to



pay the tuition fee and such additional fees as are regularly required. Applications for appointments together with supporting credentials should be received on or before March 1 of each year. In case vacancies occur, applications submitted on a later date will be considered. Appointments are made for no longer than one academic year.

In appointing fellows, preference is usually given to applicants who have completed successfully at least one year of graduate work. Fellows will be required to give a limited amount of assistance in reading papers, in laboratories, or in other departmental duties. All fellows carry a full program of graduate work. Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies. Assistants receiving \$700 or more will be registered for four-fifths of a normal program of studies.

Further information and application blanks may be obtained from the Dean of the Graduate School of Arts and Sciences, Duke University, Durham, North Carolina.

Awards offered for the year 1949-50 are listed below.

#### **FELLOWSHIPS**

One Angier Duke Memorial Fellowship of \$1,600.

Twelve University Fellowships with stipends varying from \$1,050 to \$1,500.

Twelve University Fellowships with stipends varying from \$950 to \$1,200.

Three Gurney Harriss Kearns Fellowships in Religion of \$1,000 each.

#### **GRADUATE ASSISTANTSHIPS**

Approximately eighty additional appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from \$800 to \$1,500 depending upon the nature and amount of the work assigned.

#### **GRADUATE SCHOLARSHIPS**

Fifteen scholarships with stipends varying from \$450 to \$800 each.

##### **CHARLES W. HARGITT RESEARCH FELLOWSHIP IN ZOOLOGY**

The Charles W. Hargitt research fellowship in Zoology, carrying a stipend of \$2,000, is restricted to research work in the field of Cytology. Appointment is for a single year, with the possibility of reappointment. The fellowship is primarily for post-doctoral research. Inquiries and applications should be made to Dr. C. G. Bookhout, Biology Building, Duke University, Durham, North Carolina.

##### **FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY**

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1950, from the Dean of the School of Forestry, Duke University, Durham, North Carolina.

#### **SIGMA XI PRIZE AWARDS**

The Society of Sigma Xi offers each year a prize of \$20 for a Master's thesis or its equivalent and one of \$40 for a Ph.D. dissertation or

its equivalent in the fields of Botany, Chemistry, Forestry, Mathematics, Medicine, Physics, Psychology, and Zoology. The student must be in residence during the academic year in which the prize is awarded. Students holding graduate appointments are eligible to compete, but instructors, part-time instructors, and interns are not eligible. The department concerned makes the nomination. Full particulars may be obtained from the secretary of the chapter. Nominations, recommendations, copies of theses, reports, or other materials must be in the hands of the secretary on or before May 1.

### ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.). Most departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

##### LANGUAGE REQUIREMENTS

Candidates for the degree of Master of Arts are required to have a reading knowledge of at least one foreign language. The various departments have the right to recommend specific languages that are acceptable to them. The candidate may satisfy the foreign language requirement either by examination or by transcript showing the completion of the third college year of the language, or he may satisfy the requirement by transcript showing the completion of the second college year in each of two acceptable languages.

##### MAJOR AND MINOR SUBJECTS

As a prerequisite to graduate study in his major subject, a student must have completed a minimum of twelve semester hours of approved *preliminary courses* in that department and twelve additional semester hours either in that department or in related work. Many departments require eighteen semester hours of undergraduate credit. The student should read carefully the special requirements listed by his department.

To obtain the degree of Master of Arts, a candidate must complete satisfactorily twenty-four semester hours of graduate courses and a thesis. (The student who takes more than fifteen semester hours of work in the Summer Session, must complete a total of twenty-seven hours of course work and a thesis.) The credit for the thesis is six semester hours. Each candidate for the degree must select a major subject, in which the minimum requirement is twelve semester hours and the thesis. A candidate must take six semester hours of graduate work in a minor outside of but approved by the major department, and the remaining six semester hours in the major or minor fields or in a department approved by the major department and by the Graduate School Council. Undergraduate courses may not be credited toward the degree of Master of Arts.

**RESIDENCE REQUIREMENTS**

The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. Those students who take more than fifteen semester hours of courses in the Summer Sessions must fulfill a minimum residence requirement of thirty-three weeks.

Not more than six semester hours of credit toward the Master's degree may be given to graduates of Duke University or of other colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit shall not shorten the minimum period of full-time residence work required at Duke University. However, with the approval of the student's major department and the Dean of the Graduate School, the student with such credit may be permitted to take six semester hours of required undergraduate training, or six semester hours of a required language, or to register for nine or twelve hours of thesis research instead of the usual six semester hours. No credit toward advanced degrees is given for university extension or correspondence courses.

All the work offered for the Master's degree, whether in the regular academic year or in Summer Sessions, must be completed within a period of six years from the date of beginning. Students who expect to receive advanced degrees at the regular commencement should notify the Graduate Office to that effect by March 15.

**THESIS**

The Master's thesis is intended to demonstrate the student's ability to collect, arrange, interpret and report pertinent data or material on some special problem. A publishable contribution, though desirable, is not required. Nevertheless, the thesis is expected to exhibit insight into the problem and competence in the use of appropriate scholarly methods and apparatus.

The title of the thesis must be filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred. The subject must receive the written approval of the Director of Graduate Studies of the department in which the candidate has his major field of work and also of the professor under whose direction the thesis is being written.

Four (or, at the discretion of the department, three) bound, typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 1 of the year in which the degree is conferred. All copies of the thesis should be brought to the Graduate Office before distribution to the examining committee. The examining committee is composed of three members of the Graduate Faculty appointed by the Dean of the Graduate School after consultation with the professor directing the thesis. Two copies of the approved thesis, the original and one carbon copy, are returned to the Dean of the Graduate School, who deposits them in the University Library. The original must

be endorsed with date and signatures by members of the examining committee.

### EXAMINATION

Each candidate for the Master's degree is required to appear before the committee mentioned above for a final examination, which will approximate one and one-half hours in length and will be on the thesis and major field.

### REQUIREMENTS FOR THE DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers or others engaged in educational work, upon the completion of the prescribed program of study. Before a candidate may be admitted to graduate study for the degree of Master of Education he must have completed a minimum of eighteen semester hours of approved undergraduate work in education, including courses in educational psychology and in the history of education, or educational sociology, or school administration. To be accepted as candidates for the degree, students must early in their residence (1) make a satisfactory score on a test of general ability and (2) demonstrate by examination that they can write acceptable English. In addition they must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained at any time prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

The degree of Master of Education may be earned either with or without a thesis.

*Requirements without thesis.* Students who elect not to write a thesis must earn thirty hours of course credit (thirty-three in the Summer Session). Twelve of these hours must be chosen from the four basic required courses, Education 204, 210, 217, and 235. Exemption from not more than two of the four basic courses will be allowed students who can by examination show that they already possess adequate knowledge of the subject matter of the courses omitted. Toward the end of their residence students must also pass a comprehensive examination on the content and inter-relationships among these four courses. Before taking this examination students must obtain the approval of the Director of Graduate Studies in Education and file a notice, three weeks before its announced date, of their intention to take it.

Other requirements are: a departmental major of at least twelve hours, and a minor of at least six hours in a department other than that of Education. (See page 60 of this *Bulletin* for suggestions with respect to minors.) Toward the end of their residence students must pass a comprehensive examination on their departmental major.

*Requirements with thesis.* Students are permitted to substitute a thesis for six hours of course credit, provided (1) that in the first fifteen hours of their work (twelve, in the Summer Session) they earn a "G" record on at least six hours, and (2) that they can present a thesis subject which has been approved by the member of the staff in Education who will



supervise the thesis as well as by two other members of the staff. (Two of the three faculty members approving the subject must be resident members of the staff in Education.)

Besides the thesis, students must earn twenty-four hours of course credit (twenty-seven in the Summer Session). Six of these hours must be earned by taking any two of the basic courses, Education 204, 210, 217, and 235. (Thesis students are exempted from the comprehensive examination which is required of non-thesis candidates.) Of the remaining eighteen hours (twenty-one in the Summer Session), six hours must be taken in some department other than Education. (See page 60 of this *Bulletin* for suggestions.) The other twelve (or fifteen) hours are taken in the departmental major. All other requirements, such as those relating to residence, preparation of thesis, thesis examination, etc., are the same as for the degree of Master of Arts.

## REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

### THE DEGREE

The degree of Doctor of Philosophy is a research degree; it is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses. The granting of the degree will be based primarily upon evidence of high attainments in a special field of knowledge and upon the production of a dissertation embodying the results of original research.

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult or enter into correspondence with the Dean of the Graduate School or the Chairman or Director of Graduate Studies of the department concerned. He will then be advised as to the possibility of securing the necessary instruction and supervision of research in the desired field.

### RESIDENCE

The normal period of resident graduate study is not less than three academic years. The candidate must spend at least either the last year in actual residence at Duke University, or the first two years. A substantial amount of course work in addition to the thesis will be required. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may expect to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Credit for one year of work done in Summer Sessions may be given with the approval of the Graduate School Council and the department in which the student takes his major work. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

**PROGRAM OF STUDY**

The candidate's program of studies requires concentration in one approved department (his major department), together with smaller amounts of course work in one or more related departments. Enough work must be taken in one department other than the major department to constitute an acceptable minor. Exceptions which permit both the major and the minor within the same department are allowed only by special permission of the Dean of the Graduate School.

During the third semester of the student's graduate work a committee of five members is appointed by the Dean of the Graduate School to formulate, in consultation with the student, the remainder of his doctoral program of study. The program of studies recommended by the committee is submitted to the Dean of the Graduate School for his approval on the regular form provided for that purpose. The professor in charge of the student's research in his major department serves as chairman. One member of the committee must be appointed from a department other than the major, usually the minor department. This committee, with occasional necessary changes, will serve also as the examining committee on the student's preliminary and final Ph.D. examinations.

**FOREIGN LANGUAGES**

Normally a reading knowledge of both French and German is required. On the recommendation of the department in which the candidate is doing his major work and with the approval of the Dean of the Graduate School, he may, however, be permitted to substitute for either French or German some other language which has a definite relation to the candidate's program of work for the Doctor's degree. No student may appear for his preliminary examination without having satisfied the language requirements for the Doctor's degree. The department in which he takes his major work may indicate preference as to the language in which the student shall first be examined.

Foreign language examinations are conducted by the appropriate language department in conjunction with the department in which the student has his major field of work. For the dates see Calendar, pp. 5-6, above.

**PRELIMINARY EXAMINATION**

Toward the end of the second full year of graduate work (or in special cases early in the third year), a preliminary examination of each candidate will be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be either oral or written, or both, as the committee may determine. A student who passes the examination will be recognized as a candidate for the Ph.D. degree. The examination on his minor subject or subjects will ordinarily be held at the time of his preliminary examination. Graduate students who transfer to Duke University to work toward the degree of Doctor of Philosophy and who have already passed the preliminary examination for that degree at another university must take the regular preliminary examination at Duke University.

If a student fails on his first examination, he may make a second attempt after six months upon the recommendation of his committee and with the approval of the Dean of the Graduate School. Two failures on this examination make the student ineligible to continue work toward the Ph.D. degree at Duke University.

#### DISSERTATION

The dissertation for the Ph.D. degree must be a contribution to knowledge. The subject should receive the written approval of the Director of Graduate Studies of the department in which the candidate has his major field of work and also of the professor under whom the dissertation is being written. The title of the dissertation must be filed with the Dean of the Graduate School on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree.

The dissertation must be completed to the satisfaction of the professor under whom it is written, and four bound, typewritten copies in approved form must be deposited with the Dean of the Graduate School on or before April 15 if the student desires to be examined on it before the end of the academic year. The bound copies of the dissertation should contain at the end an autobiographical sketch of the student. The title page must be approved by the major department and by the Dean of the Graduate School. The student should bring to the examination ten additional copies of the autobiographical sketch and ten copies of a brief summary of the dissertation. Two copies of the approved dissertation, the original and one carbon copy, are returned to the Dean of the Graduate School, who deposits them in the University Library. The original must be endorsed with date and signatures by the members of the examining committee.

Before the degree is conferred the candidate must deposit with the Treasurer of the University a special dissertation fee of fifty dollars in cash. If the dissertation is published in a form satisfactory to the Dean of the Graduate School and to the professor under whom it is written within a period of three years from the date the degree is granted, the fee of fifty dollars is returned. Ten copies of the published dissertation must be deposited in the Graduate School Office as provided by regulations of the Graduate School Council. A suitable abstract, or one or more articles, may be accepted as satisfying the publication agreement. If the dissertation is not published within the three-year period in a form accepted by the Dean of the Graduate School and by the professor under whom it is written, the deposit of fifty dollars is forfeited, and becomes the property of the University. The forfeited dissertation fees are credited to a special Dissertation Fund, which is used for subsidizing the publication of such dissertations recommended by the Graduate School Council.

#### FINAL EXAMINATION

The final examination on the dissertation and on the related subject matter in the major or the minor fields will be oral. Approximately one year must elapse between the dates of the preliminary examination and the final examination. Two failures on this examination make a student in-

eligible to continue work toward the Ph.D. degree at Duke University. The second examination may be given only upon the recommendation of the professor in charge of the dissertation and the approval of the Dean of the Graduate School.

### **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF EDUCATION**

The Ed.D. degree is professional in character and is available only to persons who are, or intend to become, public school administrators.

#### **ADMISSION**

The present admission requirements of the Graduate School for the candidate for the Ph.D. degree apply in every respect to the candidate for the Ed.D. degree. In addition to these uniform admission requirements, the candidate for the Ed.D. degree must: (1) have had at least three years of public school experience, preferably with some of that experience in administration; (2) make a satisfactory score on a psychological examination and show, by examination, ability to write good English; (3) present strong letters of recommendation from qualified persons; and (4) present himself, if possible, for an interview. The Standing Committee on the Ed.D. degree reserves the right to insist upon an interview.

#### **REQUIREMENTS FOR THE DEGREE**

The residence requirements for the Ed.D. candidate are the same as those for the Ph.D. candidate. To be accepted as a candidate for the Ed.D. degree the student must earn at least nine semester hours of credit at the level of "G" or above during his first year of graduate work at Duke University.

By the end of his second year of residence the candidate stands a preliminary examination similar in character and purpose to the preliminary examination for the Ph.D. degree. He must write an acceptable thesis and defend it at the time of the final examination. The degree is not awarded until after one year of successful apprenticeship in a public school system approved by the Standing Committee on the degree, under conditions which assure adequate supervision of the candidate's activities.

#### **PROGRAM OF WORK**

The candidate's major field is Public School Administration; his extra-departmental minor is taken in related fields as described below. The first year of graduate work is the present program for the Ed.M. degree or its equivalent. The work in Public School Administration in the second and third years is organized on the basis of seminars instead of discrete courses. Course work is divided approximately into thirds, with one third in the general field of Education, one third in specialized, professional work in Public School Administration, and one third in related fields. This related work, amounting to at least twenty-four semester hours, must be taken in Economics, Political Science, and Sociology, with approval given for needed work taken in other departments. In all cases, the details of the program are to be determined by the Standing Committee on the program, in consultation with each candidate for the degree.



### THE GRADING OF GRADUATE STUDENTS

Members of the Faculty are expected to report the grades of graduate students, not later than February 10 for the first semester and not later than June 6 for the second semester, on the cards provided for that purpose.

In the grading of graduate students, "E" (exceptional) is the highest mark, "G" (good), the next lower; and "S" (satisfactory) indicates work of an acceptable but not distinguished quality. "F" (fail) indicates that the work of the student is below passing. In a course in which both graduates and undergraduates are enrolled, the grade "S" represents approximately an 80 per cent rating. A mark of "Inc." (incomplete) may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in a course in which his standing is generally satisfactory. The professor specifies the period of time in which the student is permitted to make up the deficiency, but the professor cannot grant an extension beyond one calendar year from the date the course ends. No residence credit is granted for that part of a student's program which he fails to complete in a satisfactory manner.

### GENERAL REGULATIONS

Not more than twenty-five students are permitted in a class giving graduate credit, nor are undergraduate students below the Senior year permitted in such a class. Exceptions to these rules may be made by special permission of the Graduate School Council on recommendation of the department concerned.

Candidates for advanced degrees should notify the Graduate School Office by March 15 of each year whether or not they expect to complete the requirements for the degree in time for the Commencement in June.

### THE LIBRARY

The University Libraries contain 927,701 volumes, 599,760 of which are in the General Library. The remainder are shelved in eight school and departmental libraries: Divinity 43,986 volumes; Hospital 46,516 volumes; Law 87,093 volumes; Woman's College 75,986 volumes; Biology-Forestry 38,194 volumes; Chemistry 12,733 volumes; Engineering 11,357 volumes; Mathematics-Physics 12,076 volumes.

Most of the printed and manuscript resources of interest to graduate students in the humanities and social sciences are in the General Library building, which recently has been considerably enlarged. The building now has special facilities for the preservation of materials and for assisting research students in their use. Humidity and temperature are controlled throughout the book stack area. All graduate students, upon application, may receive permits admitting them to the stacks where three hundred carrels, some enclosed, are available as places of study. In addition, a special reading and study room for graduate students is provided on the first floor. Special air-conditioned storage, exhibit, and study areas have been established for rare books and manuscripts. Rare books occupy four rooms on the first floor in the new north tower; the manuscripts collection is housed on the ground floor of the same unit. Elsewhere on the ground floor there is a Newspaper Reading Room, where

back files of newspapers may be consulted, and a microphotography laboratory with facilities for reproducing printed and other material. The Newspaper Reading Room contains also a battery of microfilm reading machines.

The school and departmental libraries bring books and journals closer to students and faculty in several divisions of the University, particularly in the natural sciences.

The major task in developing a research library for scientists involves securing files of important journals and serials, and from the beginning this has been one of the primary objectives of the Library administration. In 1947-48 the University was receiving currently 3,600 periodicals by subscription, gift, and exchange. Library development in the humanities and social sciences has gone forward with the acquisition of basic collections of source materials and important publications of criticism and discussion. In quantity the purchases have ranged from significant single titles, such as Migne's *Patrologia* (Latin and Greek) and the *Monumenta Germaniae Historica*, to special libraries containing many thousands of volumes. Among the important special collections is the Guido Mazzoni library of Italian and comparative literature containing 23,000 volumes and 67,000 pamphlets which came to the University in 1948. Others include a Peruvian library of about seven thousand books and manuscripts; a library of several thousands volumes dealing with Brazil; an Ecuadorian collection of about two thousand volumes; the Robertson library of Philippiniana; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a special group of five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; a collection of more than five thousand seventeenth- and eighteenth-century British pamphlets; special collections of manuscripts; annotated copies and first editions of Byron, Coleridge, and Emerson; a collection of material on the Fourier movement; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history, and of the Trent Collection of Walt Whitman books and manuscripts.

#### PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials is clearly recognized, and a comprehensive collection of this material has been assembled. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected in co-operation with the University of North Carolina. A representative collection of European public documents has been secured.

Among them are the *British Parliamentary Papers* (since 1925), *Ciendar of State Papers*, the *Acts of the Privy Council*, *Hansard's Debates*, the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française*, the *Bulletin des Lois de la République Française*, the *Reichsgesetzblatt*, the *Verhandlungen des Reichstages*, the *Atti* of the Italian Parliament, the *Diario* of the Spanish Cortes. The public documents of the Latin-American countries, especially Argentina, Bolivia, Brazil, Chile, Ecuador, Peru, and Uruguay form one of the strongest units of the Library.

Under this heading should be mentioned also the Library of Professor Louis Strisower, sometime President of the Institut de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

#### PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has the publications of many of the European academies, containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and faculty. The sets comprise over four thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen*; *Heidelberger Akademie der Wissenschaften*; *Akademie der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia nazionale dei lincei* (Rome); *Accademia pontificia dei nuova lincei* (Rome); *Real academia española* (Madrid); *Academia de la historia* (Madrid); *Akademia nauk* (Leningrad); *Dansk videnska bernes selskab* (Copenhagen); *Norsk videnskapsakademi i Oslo*; *Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels).

#### NEWSPAPERS

The Newspaper Collection of the Library contains about 12,500 volumes and 1,600 rolls of microfilm. Most of the states of the Union are represented, although a large percentage of the papers are from the Atlantic seaboard—about fifty per cent representing the South and thirty per cent the Northeast. Of the 18th century titles, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Georgia, Virginia, North Carolina and South Carolina. The collection of 19th century New England papers is strong, but especially extensive are the Library's holdings of North Carolina, South Carolina, and Virginia newspapers for the Ante-Bellum and Civil War periods. The years of World War I are covered by twenty-eight fairly complete files. Foreign newspapers include *The (London) Times* from 1785, and about a dozen virtually complete runs of European and Latin-American papers from the 1920's and early 1930's. The current subscription list contains seventy papers, about one-half of which are foreign.



## MANUSCRIPTS

The manuscript collection now contains more than one million items relating chiefly to the South Atlantic region. Most numerous are records of military, social, and economic life in the Confederate period, including letters, diaries, rosters, military reports, statutes of the Confederate Congress, court records, and papers of various departments of the Confederate Government. Outstanding among the many papers providing a well-rounded picture of life in the South during the nineteenth century are original census returns of Georgia, Kentucky, Louisiana, and Tennessee for 1850 and 1860. The collection, most extensive in the field of history, contains information on all phases of social and economic life as well as politics. Numerous large collections bear particularly on the history of Alabama, Georgia, North Carolina, South Carolina, and Virginia. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, David Campbell, Robert Carter, Clement C. Clay, Henry Clay, William H. Crawford, John J. Crittenden, Jefferson Davis, Nathanael Greene, Andrew Jackson, Robert E. Lee, Alfred T. Mahan, Alexander H. Stephens, and others. For the later period the papers of Furnifold W. Simmons and Josiah W. Bailey, senators from North Carolina, are significant. The field of American literature is represented by papers of Thomas Holley Chivers, John Esten Cooke, Clara V. Dargan, Paul Hamilton Hayne, George Frederick Holmes, Alexander B. Meek, Thomas Nelson Page, Augustin L. Taveau, and Walt Whitman. Among the non-Southern materials there are interesting groups of papers relating to George Moore, the Rossettis, Robert Southey, and Tennyson. Of the medieval manuscripts, consisting chiefly of lectionaries and copies of the New Testament, a 13th century New Testament in Greek, and a Greek liturgical scroll of the Byzantine Empire are noteworthy. The Library has recently acquired the extensive official files of the Socialist Party of America extending from 1901 to 1938; and a collection of the papers of George Holyoake, English cooperator and secularist of the 19th century.

*A Guide to the Manuscript Collections in the Duke University Library*, which describes the papers comprising the collection in 1942, was issued in 1947 as Series 27 and 28 of the *Historical Papers of the Trinity College Historical Society*. This index was prepared by Nannie M. Tilley, then curator of manuscripts, and her assistant, Noma Lee Goodwin.

EXCHANGE PRIVILEGES WITH THE LIBRARY OF THE  
UNIVERSITY OF NORTH CAROLINA

The libraries of Duke University and of the University of North Carolina have arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other. Books are secured on loan for students and faculty through a delivery service which operates between the libraries every other day. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains 515,000 volumes, besides a large collection of manu-



scripts relating to Southern history. Under this arrangement 1,450,000 volumes are available to students in the combined libraries.

## SCIENCE LABORATORIES

### BIOLOGICAL LABORATORIES

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, five animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, mycology, anatomy, embryology, endocrinology, entomology, forest soils, and wood anatomy and properties. A 300-acre arboretum is being developed adjacent to the campus with Dr. E. S. Harrar in charge. A green house gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium, and Dr. J. R. Bailey is Curator of the Zoological Museum. On the East Campus, laboratories are provided for undergraduate women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work are available.

The Duke Forest, situated in the Piedmont region, between the mountains and the coastal plain, gives easy access to a varied flora and fauna; and its streams provide excellent collecting grounds. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, cypress, and several species of insect-catching plants. Among the animals are a varied assortment which range from marine to mountain species, including small game.

The Duke Marine Laboratory at Beaufort, North Carolina, provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Fish and Wildlife Service. Dr. C. G. Bookhout is Chairman of the Executive Committee for the Laboratory; Dr. Harold J. Humm is Resident Director.

### PHYSICAL LABORATORIES

A new physics building has just been completed. It has 62,500 square feet of floor space, and is of the most modern type.

In addition to the usual lecture halls and elementary laboratories, there are special laboratories for work in electrical measurements, electronics, microwaves, optics, atomic physics, and mechanics. A new laboratory for training in radioactive measurements has recently been added.

The research laboratories contain the following special equipment: a new 21 ft. concave grating and other instruments for visible, ultraviolet, infrared, and Raman spectra are available for research in spectroscopy. Extensive and well equipped laboratories are provided for research in microwaves and microwave spectroscopy in both the centimeter and milli-

meter range. New type crystal counters, proportional counters, and ion chambers are used for cosmic ray research.

The department has available, in addition to University appointments, a number of research fellowships for work under government contracts and from grants by industry and scientific foundations.

The new physics building contains also a departmental library, a liquid air plant, and shop facilities. The main shop is staffed by four instrument mechanics, two electronic technicians, and a glassblower. There is also a separate shop for use of graduate students.

#### CHEMICAL LABORATORIES

Graduate work in chemistry is carried on in a modern building with a floor area of about 57,000 square feet. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, a number of specially designed rooms are available for present or future research, such as a photographic room, constant temperature room, distillation room, and rooms equipped for dielectric constant and magnetic measurements.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

#### MEDICAL SCHOOL

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. The Departments of Anatomy, Bacteriology and Immunology, Biochemistry and Nutrition, and Physiology and Pharmacology offer certain courses and research facilities to students in the Graduate School of Arts and Sciences. The use of the Duke Hospital Library is available to all graduate students.

#### DUKE FOREST

The Duke Forest consists of approximately eight thousand acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region and composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region. Through placing the Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry.

The proximity of the Forest to the laboratories, greenhouses, and library facilities of the University provides an excellent opportunity for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, forest entomology, and forest pathology, is well under way. Several members of the Botany and Zoology staffs are also engaged in research in the Duke Forest.

For additional information see the *Bulletin of the School of Forestry*.

### ENCOURAGEMENT OF RESEARCH

The President of the University appoints annually a University Council on Research. The members of this Council are chosen from the Faculties of the Schools of Medicine and of Law, the Divinity School, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for subsidies to be used in the following fiscal year to aid them in carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books, and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

### SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for special lectures of value to graduate students interested in various fields of knowledge. The Woman's College Lecture Series brings other guests to the campus. In addition to these lectures, a number of distinguished speakers appear each year on the programs of various schools and departments of the University.

Among the guest lecturers during the academic year 1948-49 were A. P. Sloan, Jr., Chairman of the Board of the General Motors Corporation, and Andre Maurois, noted writer.

### THE UNIVERSITY PRESS

In 1897 Trinity College began sponsoring the publication of "The Papers of the Trinity College Historical Society," which was distributed to members of the Society and by exchange to other institutions. This series was the first publishing venture of the College. In 1902, the 9019, an honor scholastic society on the campus, founded *The South Atlantic Quarterly*, which is now published by the Press.

In 1921 the Trinity College Press was established to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. In 1925, with the acceptance of the benefaction of James B. Duke, Trinity College became one of the undergraduate colleges of Duke University, and the following year the University Press was organized to succeed the Trinity College Press.

One of the first steps of the new organization was to revive *The Hispanic American Historical Review*, which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption, and its mission has been supplemented by many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World. In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This journal was followed in 1931 by *Ecological Monographs*, a quarterly sponsored by the Ecological Society of America, to



take care of papers too long for inclusion in *Ecology*, which began to appear under the auspices of the Press in 1948. *Character and Personality*, since 1945 the *Journal of Personality*, was founded in 1932 as a medium for the publication of studies in fields related to this phase of psychology. In 1935 the Press started the publication of the *Duke Mathematical Journal*, with the co-operation of the Mathematical Association of America, and in 1937 *The Journal of Parapsychology* for the publication of the results of research in extrasensory perception and related topics. The Law School of Duke University publishes *Law and Contemporary Problems*, a quarterly presenting in each issue a symposium treating the legal, economic, and other social-science aspects of current problems. The faculty of the Law School also edits *The Journal of Legal Education*, which is the official publication of the Association of American Law Schools.

Besides its books, monographs, and regular quarterly publications the Press issues "Contributions to Psychological Theory" and "Duke University Research Studies in Education," the latter sponsored by the Department of Education of the University. It publishes also the *Bulletin of the University Marine Laboratory at Beaufort, North Carolina*.

Since its organization the Press has offered to the public the products of scholarly research to the number of more than one hundred and seventy-five volumes. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty and alumni, a great number of titles by authors without a connection with the University have been issued under the imprint of the Press.

In the broadest sense, the policy of the Press is to make available to the public any scholarly work which, because of the merit of its contents, its style, and its general value, deserves publication, though special attention is given to works in domains of knowledge cultivated by the University and to works pertaining to the region south of the Potomac.

#### APPOINTMENTS OFFICE

The services of the Appointments Office maintained by the University are extended to all graduate students without charge. Graduate students who are interested in college teaching or employment in industrial fields have been and are being placed in steadily increasing numbers. All graduate students who are interested in securing employment through the Appointments Office, or who wish to have available for their own use in securing employment a complete file containing their academic record and pertinent recommendations, should register with the Appointments Office.

#### GRADUATE STUDY IN THE SUMMER SESSION

The Duke University Summer Session is divided into two consecutive terms of six weeks each. In 1949 the first term begins June 14 and ends July 21 and is followed by a second term of six weeks ending August 31. Graduate students who wish to work toward advanced degrees in the Summer Session, particularly in Economics, Education, English, History,



Mathematics, and Spanish will usually find a wide selection of courses offered by members of the Duke Faculty and by visiting professors. Other departments ordinarily offering sequences of work leading to the Master's degree in a series of summer terms are Botany, French, Physics, Political Science, Psychology, Religion, Sociology, and Zoology. Students in Botany and Zoology have unusual opportunities for research and study in the Duke Marine Laboratory at Beaufort, North Carolina, besides regular courses offered at the University.

Graduate students who present more than fifteen semester hours earned in Summer Sessions toward the Master's degree must meet a minimum residence requirement of thirty-three weeks. No graduate student may register for more than six semester hours of credit in one Summer Session of six weeks. All the work presented for the Master's degree must be completed within six years from the date of beginning. Work completed earlier is not accepted toward either the course or residence requirements. Not more than one year of summer work is accepted toward the residence requirements for the Ph.D. degree.

A Bulletin containing information regarding the graduate courses to be offered during the summer of 1949 may be obtained by addressing the Director of the Summer Session, College Station, Durham, N. C. Summer Session graduate students who desire to be admitted to graduate courses to work toward advanced degrees should make application to the Dean of the Graduate School by June 1 for admission to the first summer term and by July 15 for admission to the second summer term. They should also request the registrar of the colleges attended to send to the Dean of the Graduate School an official transcript of their undergraduate record.

## COURSES OF INSTRUCTION

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*Most courses listed in this Bulletin are given on the West Campus. The letter (E) following the description means that that course is offered on the East Campus. In general, courses with odd numbers are offered in the first semester, those with even numbers in the second semester.*

### AESTHETICS, ART, AND MUSIC

PROFESSOR KATHARINE GILBERT, CHAIRMAN—100 ASBURY BUILDING; ASSISTANT PROFESSOR MARKMAN

No graduate degree is offered in this department, but the following courses are suggested as possible minors for students majoring in history, literature, philosophy, religion, psychology, or sociology, or in any other interested departments.

**201-202. The Philosophy of Art.**—Analysis with the aid of examples of general terms used in the discussion of art. Reference to recent aesthetic theories. **6 s.h. (E)** PROFESSOR GILBERT

**213-214. History of Aesthetics.**—Theories of art and beauty from Pythagoras to Croce. **6 s.h. (E)** PROFESSOR GILBERT

**215. Religious Art of the Ancient Near East.**—A specialized study of the development of art, particularly architecture and sculpture, as the material expression of religious ideas in Egypt, Mesopotamia and in part Syria and Palestine to the Persian conquest. **3 s.h. (w)** ASSISTANT PROFESSOR MARKMAN

**216. Religious Art of the Classical World.**—A specialized study of the religious art, particularly architecture and sculpture, of Greece and Rome with special emphasis on the monuments in the Near East. **3 s.h. (w)** ASSISTANT PROFESSOR MARKMAN

### DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSORS CLARK, ROGERS, AND STINESPRING; ASSISTANT PROFESSORS ROSE, TRUESDALE, AND WAY

#### GREEK

Three types of courses are offered for graduate study by the Greek Department, and one representative of each type is given every year. One group of courses is devoted to extensive reading in the six departments of classical Greek literature; another deals with Greek archaeology, dialects, and inscriptions; and the third is a series of seminars covering four years. The courses of each type rotate from year to year in a fixed order for the most part. In 1949-50 the courses offered are 203-204, 247-248, and 305-306.

The requirement for admission to graduate work is four years' study of the Greek language or twenty-four semester hours of course credit. A student with fewer credits may be admitted if he has undoubted ability.

FOR SENIORS AND GRADUATES

**201-202. Greek Tragedy.**—**6 s.h.** ASSISTANT PROFESSOR TRUESDALE

**203-204. Homer.**—*Odyssey*. Pindar and Bacchylides. **6 s.h.** ASSISTANT PROFESSOR TRUESDALE

**205-206. Greek Historians.**—**6 s.h.** ASSISTANT PROFESSOR ROSE

**207-208. Greek Orators.**—**6 s.h.** ASSISTANT PROFESSOR WAY

- 209-210. **Plato.**—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h.  
ASSISTANT PROFESSOR WAY
- 211-212. **Aristophanes.**—6 s.h. ASSISTANT PROFESSOR TRUESDALE  
(Only one of the six courses listed above is offered each year.)
243. **Athenian Topography.**—The topography and monuments of ancient Athens. 3 s.h. ASSISTANT PROFESSOR WAY
244. **Greek Epigraphy.**—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. 3 s.h. ASSISTANT PROFESSOR WAY
245. **Greek Dialects.**—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined, with reference, where possible, to their origin in pre-ethnic Greek. 3 s.h. ASSISTANT PROFESSOR WAY
246. **Greek Historical Inscriptions.**—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. 3 s.h. ASSISTANT PROFESSOR WAY
- 247-248. **Greek Archaeology.**—Advanced course in the general field for Seniors and Graduates, comprising architecture, sculpture, vases, and the minor arts. 6 s.h. ASSISTANT PROFESSOR WAY
- (Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)
257. **Social and Cultural History of the Hellenistic World from Alexander to Augustus.**—Lectures, readings, and discussions. This course will not be separately credited without the sequel Latin 258. 3 s.h. PROFESSOR ROGERS

FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in *Aristophanes* (301-302), *The Greek Historians* (303-304), *The Attic Orators* (305-306), and *The Greek Tragic Poets* (307-308). These run through a cycle of four years. In 1949-50 the work will be: 307-308. *The Greek Tragic Poets.*—6 s.h.

*Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology, and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

LATIN AND ROMAN STUDIES

The program of the Latin Department seeks to provide for two different kinds of student: (a) those who intend to pursue graduate study only to the attainment of the Master of Arts degree, and (b) those who desire to continue research in the field of classical studies and who contemplate working toward the degree of Doctor of Philosophy. Students of the former class should have not less than eighteen semester hours of credit in Latin, over and above the four-year high-school course in Latin or its college equivalent, and an elementary acquaintance with German and French. Students looking to the doctorate should have in addition to the above preparation at least twelve semester hours of credit in Greek and will ordinarily take their minor in Greek. They must have a reading knowledge of German and French. The ability to read Italian will also prove valuable. The Department reserves the privilege

of rejecting applications of students who, while meeting these requirements literally, do not in their past records show promise of success in more advanced study.

FOR SENIORS AND GRADUATES

201. Roman Fiction.

202. Latin Christian Writers.

203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—A study of this literary genre, and its development by Roman writers; extensive reading of the Roman epics. *Not offered if 205-206 is given.* 6 s.h. (E)

205-206. Roman Drama: Plautus, Terence, Seneca.—A rapid reading course in which five plays of Plautus, three of Terence, and two of Seneca are studied. 6 s.h. (E)

207-208. Roman Philosophy.

209-210. Vulgar Latin: Introduction to Romance Philology.

211-212. Roman Oratory.—A survey of the history of Roman oratory, centering about the *Brutus* of Cicero and Tacitus' *Dialogus*. 6 s.h.

PROFESSOR ROGERS

215. Introduction to Roman Art and Archeology.

216. Topography and Monuments of Ancient Rome.

251-252. Roman Life.

258. Social and Cultural History of the Graeco-Roman World.—The Roman Empire as the trustee of Hellenism and Christianity, and its own original contributions to modern civilization; lectures, readings, and discussions. This course continues Greek 257 and will not be separately credited. 3 s.h.

PROFESSOR ROGERS

281-282. Roman Historical Literature.

283-284. Roman Law.—Readings in the original sources with parallel study of modern exposition of the Roman legal system. 6 s.h.

PROFESSOR ROGERS

FOR GRADUATES

309-310. Sight Reading and Composition.—Comprehensive reading in special fields of Roman Literature not included in other courses, with which the writing of Latin will be correlated. 6 s.h.

ASSISTANT PROFESSOR ROSE

311-312. Latin Epigraphy.—Introduction to Latin epigraphy, with considerable practice in reading short inscriptions, *first semester*; and this is followed by a study of important historical inscriptions including the Monumentum Ancyranum; *second semester*. 6 s.h.

PROFESSOR ROGERS

**Seminars:** Various authors or historical periods are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: Catullus (301-302), Roman Historians (331-332), Roman Provincial Administration (341-342), The Reign of Tiberius (343-344), Martial (351-352), Horace (361-362), Lucretius (371-372), and Cicero's Public Career (391-392). The seminar planned for 1949-50 is:

331-332. Roman Historians.—6 s.h.

PROFESSOR ROGERS

LINGUISTICS

FOR GRADUATES

375-376. Greek and Latin Linguistics.—A comparative study of the development of forms and inflections in Greek and Latin. 6 s.h.

ASSISTANT PROFESSOR ROSE



**385-386. Elementary Sanskrit.**—An introductory course to the classical language and literature. The linguistic importance of Sanskrit will be stressed, especially with reference to Greek, Latin, and Germanic. **6 s.h.**

ASSISTANT PROFESSOR ROSE

**SEMITICS**

FOR SENIORS AND GRADUATES

**201-202. First Hebrew.**—The principles and structure of the Hebrew language, with translations of selected Old Testament narratives. **6 s.h.**

**205-206. Elementary Arabic.**—Introduction to the classical language and literature, with some attention to the modern colloquial idiom. **6 s.h.**

[Not offered in 1949-50]

PROFESSOR STINESPRING

**207-208. Second Hebrew.**—Samuel or Kings the first semester; Isaiah the second. **6 s.h.**

PROFESSOR STINESPRING

FOR GRADUATES

**304. Aramaic.**—A study of the Aramaic portions of the Old Testament and selected passages from the Targums, Midrashes, and Talmuds. **3 s.h.**

PROFESSOR STINESPRING

**305. Third Hebrew.**—A study of late Hebrew prose, with readings from Chronicles, Ecclesiastes, and the Mishnah. Hours to be arranged. **3 s.h.**

PROFESSOR STINESPRING

**309. History of the Ancient Near East.**—A survey of the early civilizations of Egypt, Palestine, Syria, and Mesopotamia in the light of Biblical archaeology. **3 s.h.**

PROFESSOR STINESPRING

[Not offered in 1949-50]

**RELATED COURSES IN OTHER DEPARTMENTS**

**Philosophy 217. Philosophy of Aristotle.**—**3 s.h.**

ASSISTANT PROFESSOR McLARTY

**Religion 217. The New Testament in Greek.**—Extensive reading of the Greek critical text, with special consideration of variant interpretations. **3 s.h.**

ASSISTANT PROFESSOR YOUNG

**Religion 218. Galatians and I Corinthians.**—A detailed study of two of Paul's major epistles, based on the Greek text. **3 s.h.**

PROFESSOR CLARK

**Religion 220. I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament, based on the Greek text. **3 s.h.**

PROFESSOR CLARK

[Not offered in 1949-50]

**Religion 313. The Apostolic Fathers.**—A study of the Christian development from Clement of Rome to Polycarp, with readings of the Greek text. **3 s.h.**

PROFESSOR CLARK

**Religion 316. Hellenistic Religions at the Beginning of the Christian Era.**—**3 s.h.**

PROFESSOR CLARK

**Religion 318. Text of New Testament.**—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. **3 s.h.**

PROFESSOR CLARK

[Not offered in 1949-50]

Under the terms of a co-operative agreement graduate students of Duke University may, with the approval of the chairman of their major department, take any graduate course offered by the Departments of Greek and Latin of the University of North Carolina by the payment of a nominal fee. A list of these courses will be sent upon request.

## BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSOR KRAMER, DIRECTOR OF GRADUATE STUDIES—04 BIOLOGY BUILDING; PROFESSORS ADDOMS, HARRAR AND WOLF; ASSOCIATE PROFESSORS ANDERSON, OOSTING, AND PERRY

Graduate work is offered leading to the Master's and Ph.D. degrees. Students must have a satisfactory background in the biological sciences. This ordinarily includes at least 12 hours of botany beyond an elementary course. A working knowledge of chemistry and of physics is desirable and for some phases of botanical work, required. Graduate work is planned to provide the student with a broad basic training in the various fields of botany, accompanied by specialization in the field of the research problem.

## FOR SENIORS AND GRADUATES

**202. Genetics.**—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and interpretation of data from the breeding of plants. Offered in alternate years. Prerequisites: one year of botany, zoology, or equivalent, and college algebra. **4 s.h.**

ASSOCIATE PROFESSOR PERRY

**203. Plant Cytology.**—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Offered in alternate years. Prerequisite: one year of botany. **4 s.h.**

ASSOCIATE PROFESSOR ANDERSON

**204. Advanced Plant Anatomy.**—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Special reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. **4 s.h.**

PROFESSOR ADDOMS

**216. Botanical Microtechnique.**—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements, drawing, and photomicrography; botanical photography, and lantern slides. Prerequisite: two semesters of botany. **4 s.h.**

ASSOCIATE PROFESSOR ANDERSON

**221. Structure and Classification of Fungi.**—Prerequisite: two semesters of botany. **4 s.h.**

PROFESSOR WOLF

**222. Physiology and Ecology of Fungi.**—Prerequisite: Botany 221 or equivalent. **4 s.h.**

PROFESSOR WOLF

**225-226. Special Problems.**—Students with adequate training may do special work in the following fields. Credits to be arranged.

(a) Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

(b) Cytology. ASSOCIATE PROFESSOR ANDERSON

(c) Ecology. ASSOCIATE PROFESSOR OOSTING

(d) Genetics. ASSOCIATE PROFESSOR PERRY

(e) Morphology and Anatomy of Higher Plants.  
PROFESSORS ADDOMS AND HARRAR; ASSOCIATE PROFESSOR OOSTING

(f) Morphology and Taxonomy of Lower Groups. PROFESSOR BLOMQUIST

(g) Physiology. PROFESSORS ADDOMS AND KRAMER

(h) Plant Microchemistry. PROFESSOR ADDOMS

(i) Taxonomy of Higher Groups. PROFESSOR BLOMQUIST

**252. Advanced Plant Physiology.**—The physicochemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151 or equivalent; organic chemistry recommended. **4 s.h.**

PROFESSOR KRAMER

**255. Advanced Taxonomy.**—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems, and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52 or equivalent. **4 s.h.**

PROFESSOR BLOMQUIST

**256. Field Ecology.**—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. **4 s.h.**

ASSOCIATE PROFESSOR OOSTING

#### FOR GRADUATES

**305. Plant Geography.**—The distribution and limits of vegetation types with special consideration of the plant communities of North America. Offered in alternate years. Prerequisite: Botany 156 or equivalent. **4 s.h.**

ASSOCIATE PROFESSOR OOSTING

**310. Structure and Classification of Bryophytes and Pteridophytes.**—The morphological and systematic characteristics of mosses, liverworts, ferns, and fern allies. **4 s.h.**

PROFESSOR BLOMQUIST

**311. Structure and Classification of Algae.**—The morphological and ecological characteristics of the common freshwater and marine species and the principles underlying their classification. Collecting, identification, and the making of permanent microscopical preparations. **4 s.h.**

PROFESSOR BLOMQUIST

**341. Methods in Plant Physiology.**—The theory and use of apparatus and methods in physiological research. **4 s.h.**

PROFESSOR KRAMER

**342. Plant Microchemistry.**—The identification and estimation of the constituents of plant cells by the use of microchemical tests. Offered in alternate years. **2 s.h.**

PROFESSOR ADDOMS

**359-360. Research in Botany.**—Individual investigations in the various fields of botany. Credits to be arranged.

PROFESSORS ADDOMS, BLOMQUIST, HARRAR, KRAMER, WOLF;  
ASSOCIATE PROFESSORS ANDERSON, OOSTING, AND PERRY

**397-398. General Botanical Seminar.**—One hour per week throughout the year. Required of all graduates majoring in botany. **2 s.h.**

PROFESSORS ADDOMS, BLOMQUIST, HARRAR, KRAMER, WOLF;  
ASSOCIATE PROFESSORS ANDERSON, OOSTING, AND PERRY

#### FOREST BOTANY

##### FOR SENIORS AND GRADUATES

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2. **4 s.h.**

PROFESSOR WOLF

**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. **3 s.h.**

PROFESSOR HARRAR

#### RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in botany.

**Forestry 257. Design of Forestry Experiments and Analysis of Data.**—**5 s.h.**

PROFESSOR SCHUMACHER

**Zoology 341. Historical and Philosophical Zoology.—2 s.h.**

PROFESSOR HARGITT

**CHEMISTRY**

PROFESSOR GROSS, CHAIRMAN—219 CHEMISTRY BUILDING; PROFESSOR VOSBURGH, DIRECTOR OF GRADUATE STUDIES—211 CHEMISTRY BUILDING; PROFESSORS BIGELOW, HAUSER, LONDON, AND SAYLOR; ASSOCIATE PROFESSORS BROWN, HILL, AND HOBBS; ASSISTANT PROFESSOR BRADSHAW

The graduate work in the Department is planned so as to provide a broad basic training in the fields of inorganic, organic, analytical, and physical chemistry. The selection of the research problem for the A.M. or Ph.D. degree determines in which field further specialization takes place.

In the requirements for the Ph.D. degree the most emphasis is placed on the successful completion, under the direction of a member of the Staff, of a research program leading to the solution of an original problem.

**FOR SENIORS AND GRADUATES**

**206. Elements of Theoretical Chemistry.**—A short course in general theoretical chemistry for students who do not present credit in calculus. Credit is not given for both 206 and 261-262. Three recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 51-52 or 1-2 and Mathematics 6 s.h. With the permission of the Director of Graduate Studies, graduate students from other departments may offer other advanced science courses in place of some of these prerequisites. **4 s.h.**

PROFESSORS SAYLOR AND GROSS; ASSOCIATE PROFESSOR HOBBS

**215-216. Advanced Inorganic Chemistry.**—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70, 151-152, and 261-262, or 206. **6 s.h.**

PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR HILL

**233. Instrumental Analysis.**—Experiments in the use of physical measuring instruments in chemical analysis with special attention to optical instruments. One lecture and three laboratory hours. Prerequisites: Chemistry 70 and one year of physics. **2 s.h.**

ASSOCIATE PROFESSOR HOBBS; PROFESSORS SAYLOR AND VOSBURGH

**234. Physico-Chemical Methods of Analysis.**—Discussion of physico-chemical principles as applied to methods of instrumental analysis, illustrated by laboratory experiments, with emphasis on methods involving electrical techniques. One lecture and three laboratory hours. Prerequisites: Chemistry 70 and 261-262; the latter may be taken concurrently. **2 s.h.**

ASSOCIATE PROFESSOR HOBBS; PROFESSORS SAYLOR AND VOSBURGH

**236. Theory of Analytical Chemistry.**—A study of such topics as precision and errors, theories of precipitation and titration, oxidation and reduction, and others, illustrated by typical analytical methods. One lecture. Prerequisites: Chemistry 70 and 261-262. **1 s.h.**

PROFESSOR VOSBURGH

**251. Qualitative Organic Analysis.**—Systematic identification of organic compounds, including a study of solubilities and classification reactions. One lecture and three or six laboratory hours. Prerequisites: Chemistry 70 and 151-152. **2 or 3 s.h.**

PROFESSOR HAUSER

**252. Advanced Organic Preparations.**—A laboratory course including experiments of a more difficult type than those required on the elementary level, accompanied by oral discussions of the techniques and theories involved, and designed to round out the student's knowledge of fundamental organic processes. Three or six laboratory hours. Prerequisite: Chemistry 151-152. **1 or 2 s.h.**

ASSOCIATE PROFESSOR BROWN AND PROFESSOR BIGELOW



**253-254. Advanced Organic Chemistry.**—Discussion of the theories of organic chemistry with special reference in the first semester to the mechanism of reactions and in the second semester to the synthesis of some of the more complex compounds such as vitamins, hormones, and alkaloids. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Prerequisites: Chemistry 70 and 151-152. **4 s.h.**

PROFESSORS BIGELOW AND HAUSER

**261-262. Physical Chemistry.**—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 51-52 or 1-2 and Mathematics 51-52 or equivalent. **6 s.h.**

ASSOCIATE PROFESSOR HOBBS; PROFESSORS GROSS AND SAYLOR

**265-266. Chemical Physics. Statistical Theory.**—General introduction to statistical mechanics and applications to chemical problems; solution theory, reaction velocity, changes of state, quantum statistics and the metallic state. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. **6 s.h.**

PROFESSOR LONDON

**267-268. Chemical Physics. Quantum Theory of Atomic and Molecular Structure.**—Theory of atomic and molecular forces and the structure of matter. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. **6 s.h.**

PROFESSOR LONDON

**271. Introduction to Research.**—Lectures on the use of chemical literature, research methods, recording and publication of results, and other topics. One lecture. **1 s.h.**

PROFESSORS BIGELOW, GROSS, AND VOSBURGH

**273-274. Seminar.**—Required of all graduate students in chemistry. One hour a week discussion. **2 s.h.**

PROFESSORS BIGELOW, GROSS, HAUSER, SAYLOR, AND VOSBURGH;  
ASSOCIATE PROFESSORS BROWN, HILL, AND HOBBS;  
ASSISTANT PROFESSOR BRADSHER

**275-276. Research.**—The aim of this course is to give instruction in methods used in the investigation of original problems. Nine hours a week and conferences. **3 or 6 s.h.**

PROFESSORS BIGELOW, GROSS, HAUSER, LONDON, SAYLOR, AND VOSBURGH;  
ASSOCIATE PROFESSORS BROWN, HILL, AND HOBBS;  
ASSISTANT PROFESSOR BRADSHER

#### FOR GRADUATES

**303. Thermodynamics.**—Fundamental laws of thermodynamics and their applications to chemistry and physics. **3 s.h.**

PROFESSORS SAYLOR, GROSS, AND VOSBURGH

**304. Topics in Advanced Physical Chemistry.**—The topics considered include reaction kinetics, solubility theory, chemical equilibrium, atomic and molecular forces, and the relation of these to chemical reactivity. Prerequisite: Chemistry 261-262. **3 s.h.**

ASSOCIATE PROFESSORS HOBBS AND HILL;  
PROFESSORS GROSS AND SAYLOR

**350. Organic Reactions.**—A study of the scope and limitations of the more important types of reactions of organic chemistry from the point of view of their practical use in the synthesis of organic compounds. Lectures and discussion. Prerequisites: Chemistry 251 and 253. **2 s.h.**

ASSISTANT PROFESSOR BRADSHER

**351-352. Advanced Synthetic Organic Chemistry.**—Recent advances in certain selected fields, such as the mechanism of organic reactions, medicinals, dyes, perfumes, terpenes, and alkaloids, will be discussed. The emphasis will be placed on structure studies and synthetic methods. Lecture or seminar one hour each week. 2 s.h.  
PROFESSORS BIGELOW AND HAUSER

**363-364. Advanced Physical Chemistry.**—Recent advances in physical chemistry are considered. Prerequisites: Chemistry 261-262 and 303, or equivalent. 4 s.h.  
PROFESSORS GROSS, SAYLOR AND VOSBURGH; ASSOCIATE PROFESSORS HILL AND HOBBS

#### RELATED COURSES IN OTHER DEPARTMENTS BIOCHEMISTRY

**M241. General Biochemistry.**—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry, and at least one year of college biology. February-June. 8 s.h.  
DR. PERLZWEIG AND STAFF

**M242. Biochemical Preparations.**—Prerequisite: Biochemistry M241. *Hours by arrangement.* 2, 3, 4 s.h. DRS. PERLZWEIG, NEURATH, AND HANDLER

**M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.**—4 s.h.  
DR. NEURATH

**M341. Pathological Chemistry.**—Two hours per week by arrangement. Prerequisites: Biochemistry M241 and Physiology M261-2.  
DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

**M343. Immunochemistry.**—2 s.h.  
DRS. MARTIN AND NEURATH

**M363-364. Advanced Seminar in Nutrition.**—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. Two hours weekly. 4 s.h.

#### ECONOMICS

PROFESSOR HOOVER, CHAIRMAN—115 PHYSICS BUILDING; PROFESSOR SPENGLER, DIRECTOR OF GRADUATE STUDIES—304 GRAY BUILDING; PROFESSORS BLACK, DE VYVER, HUMPHREY, RATCHFORD, SMITH, AND VON BECKERATH;  
ASSOCIATE PROFESSORS ALLEN AND SIMMONS

A student who proposes to major in economics in his graduate work should have completed in his undergraduate program twelve semester hours of course credit in economics with a grade of "B" or better. At least five semester hours or the equivalent should represent work in Principles of Economics. In the event of a deficiency in his undergraduate preparation, the student may arrange with the Director of Graduate Studies to remove the deficiency during his first year of residence by taking prescribed courses without graduate credit. Detailed information concerning departmental requirements for programs of study and advanced degrees may be obtained from the Director of Graduate Studies.

#### FOR SENIORS AND GRADUATES

**204. Advanced Money and Banking.**—Structure and functioning of the monetary and banking mechanism. Presupposes a thorough grounding in the field. Particular attention is given to significant areas involving issues of economic policy. Primary emphasis is placed upon the underlying basis of monetary management and upon its implementation by the central banking authorities.  
ASSOCIATE PROFESSOR SIMMONS

**215. Economic Systems.**—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. Particular attention is given to an analysis of the Soviet economic system. Credit for this course will be given only if the student takes Economics 216. 3 s.h.  
PROFESSOR HOOVER

**216. Economic Functions of the State.**—A consideration of the primary and secondary economic functions of government and of the legislation which provides for the performance of these functions. Prerequisite: Economics 215 or its equivalent. 3 s.h. PROFESSOR HOOVER

**217. Population Problems and Resources.**—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth rates. 3 s.h. PROFESSOR SPENGLER

**218. Business Cycles.**—Description and analysis of the causes and consequences of economic rhythms and movements of various lengths (e.g., seasonal, cyclical, long-period, etc.). Analysis of methods proposed as means of curtailing such movements, or of mitigating their effects. 3 s.h. PROFESSOR HUMPHREY

**231. The Economic History of Europe.**—The economic development of Europe from medieval times to the present, treating such topics as guilds, mercantilism, money, banking, crises, the Industrial Revolution, the interrelationships of government and business, and the economic consequences of war. 3 s.h. PROFESSOR SMITH

**233. State and Local Finance.**—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. 3 s.h. PROFESSOR RATCHFORD

**234. Federal Finance.**—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between federal and state governments. 3 s.h. PROFESSOR RATCHFORD

**236. Taxation and Government Finance.**—A basic course in public finance for advanced students. Primary emphasis is placed on taxation and tax policy, with consideration also of government expenditures, financial administration, intergovernmental fiscal relations, and public debts. Readings in texts, monographs, and source materials will be supplemented by lectures, class discussions, and reports on special topics. Not open to students who have received credit for Economics 187 or equivalent. 3 s.h. PROFESSOR RATCHFORD

**237-238. Statistical Methods.**—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Economics 138 or consent of the instructor. 6 s.h. ASSOCIATE PROFESSOR HANNA

**241-242. Value and Distribution.**—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. 6 s.h. PROFESSOR SPENGLER

**245. Problems of Modern Industrialism.**—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the



complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised, with special emphasis on the problems of industrial demobilization and on industrial reconstruction after the war. 3 s.h.

PROFESSOR VON BECKERATH

**256. Labor Legislation.**—A study of the relations of the state to labor problems with special reference to remedial legislation, to interference in labor disputes, and to social insurance. 3 s.h.

PROFESSOR DE VYVER

**260. Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pension, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. 3 s.h.

PROFESSOR DE VYVER

**265. International Trade and Finance.**—A study of the fundamental principles of international trade and foreign exchange. Subjects covered will include international specialization, balance of payments, foreign investments, tariffs and commercial policies, exchange control, exchange rates, and international monetary problems. 3 s.h.

ASSOCIATE PROFESSOR ALLEN

**268. Competitive versus Monopolistic Enterprise.**—(1) Competition as an economic order; (2) competition as a political order; (3) monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution. (8) The effects of war on competition and private enterprise. (9) The role of large-scale industry and small-scale industry in the social economy after the war. Comparison of American, English, and Continental European viewpoints. 3 s.h.

PROFESSOR VON BECKERATH

**275-276. Advanced Industrial Accounting and Management.**—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Courses 57-58 and 105 are ordinarily prerequisites for this course. 5 s.h.

PROFESSOR BLACK

#### FOR GRADUATES

**304. Seminar in Money and Banking.**—3 s.h.

ASSOCIATE PROFESSOR SIMMONS

**311-312. History of Political Economy.**—This course traces the development of economic theory, giving special attention to the various schools of economic thought in England, France, Germany, Italy, and the United States. A large amount of collateral reading in the works of typical authors is required. Lectures and class discussions. 6 s.h.

PROFESSOR SPENGLER

**313-314. Seminar in Economic Theory.**—The course consists of directed research in economic theory. The primary purpose is the correction of authoritative eclecticism and its replacement by individually integrated theory. Prerequisite: Economics 241-242 or its equivalent. 6 s.h.

PROFESSOR HOOVER

**317. Seminar in Population Problems.**—3 s.h.

PROFESSOR SPENGLER

**318. General Seminar in Economics.**—All graduate students with economics as a major subject are members of this seminar. Reports of progress in research will be made, and there will be lectures and critical discussion by members of the Department. Year course. No credit.

STAFF



319. Seminar in the Theories and Problems of Economic Change.—3 s.h.  
 PROFESSOR SPENGLER
320. Seminar in Business Cycles.—3 s.h. PROFESSOR HUMPHREY
330. Seminar in Public Finance.—3 s.h. PROFESSOR RATCHFORD
331. Research in Economic History: A Seminar.—3 s.h. PROFESSOR SMITH
343. Seminar in Financial Organization.—3 s.h. PROFESSOR RATCHFORD
355. Seminar in Labor Problems.—3 s.h. PROFESSOR DE VYVER
365. Seminar in International Trade.—3 s.h. ASSOCIATE PROFESSOR ALLEN
368. Seminar in Marketing Problems.—3 s.h.  
 ASSOCIATE PROFESSOR LANDON
386. Seminar in Latin-American Economic Problems.—3 s.h.  
 PROFESSOR SMITH
389. Seminar in Business and Government.—3 s.h. PROFESSOR HUMPHREY

#### RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

- Forestry 278. Economics of Forestry.—3 s.h. PROFESSOR THOMSON
- History 219-220. The History of the European Proletariat.—6 s.h.  
 [Not offered in 1949-50] PROFESSOR CARROLL
- Political Science 207. American Constitutional Law and Theory.—3 s.h.  
 PROFESSOR WILSON

#### EDUCATION

\*PROFESSOR BROWNELL, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—1-C WEST  
 DUKE BUILDING; PROFESSORS CARR, CHILDS, AND PROCTOR; ASSOCIATE  
 PROFESSORS BOLMEIER, EASLEY, NAHM, RUDISILL,  
 AND STUMPF

The Department offers a full major of work in educational psychology toward the degree of Doctor of Philosophy, with approved minors in as many as two of the departmental divisions listed for the Master's degree and in another department closely related to the thesis problem of the candidate (see below). It is planned to offer complete majors in other divisions as rapidly as growth of the Department warrants.

In addition, the Department offers work toward the Master of Arts and Master of Education degrees, minor work toward the Doctor of Philosophy degree with majors in other departments, and a three-year graduate program in Public School Administration leading to the professional degree, Ed.D. The degree of Master of Arts is available in the divisions of elementary education, experimental education and educational psychology, history and philosophy of education, public school administration, secondary education, and educational sociology. The degree of Master of Education is available in the divisions of elementary education, public school administration, secondary education, and nursing education.

Master's degree candidates must choose their courses according to some unified plan. The mere accumulation of more or less unrelated work in the various divisions with minor work in some department only remotely related to the major field does not lead to a graduate degree. Every candidate for a Master's degree should elect at least six, and preferably twelve, semester hours of course work in his departmental major. No student, except by special approval of the Department and of the Graduate School, is permitted to take minor work in more than one department or to an amount exceeding six semester hours.

\* On June 1, 1949, Professor Proctor will become Acting Chairman and Acting Director of Graduate Studies.

For admission to candidacy for the Master's degree within the department, students must, in addition to meeting the general requirements for admission to the Graduate School, satisfy the following specific requirements: (1) eighteen hours of approved prior work in Education; (2) twelve semester hours of approved prior work in a minor field (exception: if psychology or sociology is offered for the minor, six semester hours of work completed after entering the junior year of college satisfy this requirement). To become candidates for the Master of Education degree, students must also (3) make an acceptable score on a test of general ability and (4) show by examination that they are able to write good English.

Candidates for the A.M. degree *must write theses*. Those who intend to write theses in the history of education are required to take their minor work in American history. Students writing in school administration are advised to elect minor work in economics and political science. Students writing in educational psychology should elect their minor work in psychology.

Candidates for the Master of Education degree may or may not write theses. Complete information for both programs will be found on pages 34 and 35 of this *Bulletin*.

Master of Education candidates *who do not write theses* must take the four basic courses, Education 204, 210, 217, and 235, must pass a comprehensive examination on them toward the end of their residence, and must stand a comprehensive examination on their departmental major. For candidates for the degree of Master of Education in Nursing Education the departmental major consists of courses Education 310, 311, and 312.

Candidates for the Master of Education degree *with thesis* must meet the special conditions described on page 34, with respect to admission to candidacy, thesis subject, and enrollment in two of the four basic departmental courses.

Students seeking the degree of Doctor of Philosophy in educational psychology must satisfy the uniform requirements of the Graduate School for admission, as well as the Department's requirements respecting approved prior work in education and in a minor field. (See above for the Master's degree.) Candidates are expected to complete 65-75 semester hours of course work and to write theses which represent original contributions. The amount and distribution of course work is an individual matter determined by the supervising committee in relation to the candidate's needs. The program consists of 27-35 semester hours in the major, educational psychology; 15-20 hours in an intra-departmental minor or minors; 15-25 in the extra-departmental minor, and the remainder in related departments as seems advisable. The extra-departmental minor is psychology; few exceptions are allowed. A preliminary examination, covering both major and minor fields, is given late in the second year of graduate work. The doctoral thesis, for which technically eighteen hours of credit are allowed, usually requires more than a calendar year for its completion.

Candidates for the Ed.D. degree must accumulate three years of residence at the graduate level, the last two years at Duke University. A special requirement for admission to the degree program is three years of practical school experience, preferably with some of it in the field of administration. The program calls for approximately 24 s.h. of work in service courses in education and an equal amount of work in a minor or in minor departments, in addition to 24 s.h. of specified work in the field of public school administration in the second and third years. Candidates must write and defend acceptable theses and serve one year of successful apprenticeship under supervision before receiving the degree. For other details in the program, see page 38.

#### ELEMENTARY EDUCATION

##### FOR SENIORS AND GRADUATES

**207. Technique of Teaching.**—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. 3 s.h. (E) PROFESSOR CARR  
[Not offered in 1949-50]

**212. Psychology of the Elementary School Subjects.**—A study of the psychology of learning as applied to teaching the common school subjects. First semester. 3 s.h. (E) PROFESSOR CARR  
[Not offered in 1949-50]

**222. The Curriculum and Materials of the Elementary Grades.**—A study of curriculum problems in the elementary schools. 3 s.h. (E) PROFESSOR CARR  
[Not offered in 1949-50]

**232. Supervision of Instruction.**—A survey of supervision as a means of improving instruction and adapting the curriculum to the learner and to community needs. 3 s.h. (E) PROFESSOR CARR

**235. The Nature, Function, and Reorganization of the Curriculum.**—One of the required courses for the Master of Education degree without thesis. Selected problems guiding the reading of students. Open to graduate students only. 3 s.h. PROFESSOR CARR

### EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

#### FOR SENIORS AND GRADUATES

**208A. Mental Tests and Applications.**—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. First semester. 3 s.h. (E) ASSOCIATE PROFESSOR EASLEY

**208B. Practicum.**—Open only to students approved by the instructor. Second semester. 2 s.h. (E) ASSOCIATE PROFESSOR EASLEY

**209. Statistical Methods Applied to Education.**—A study of statistical methods of treating educational and social data designed to enable teachers or administrators to interpret and use the results of scientific investigations in education. 3 s.h. (E) ASSOCIATE PROFESSOR STUMPF

**210. Introduction to Educational Research.**—The general purpose of this course is to give the student an overview of research, acquaint him with the nature of research processes, and develop within him an appreciation of the essential characteristics of good research work. The course is one of the four basic courses required for the Master of Education degree without thesis and is designed to be liberalizing as well as technical. Open to graduate students only. 3 s.h. ASSOCIATE PROFESSOR STUMPF

**216. Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. 3 s.h. (E) PROFESSOR CHILDS  
[Not offered in 1949-50]

**217. The Psychological Principles of Education.**—An advanced study of teaching, learning, and the learner. This is one of the courses required for the Master of Education degree without thesis. Selected problems guiding the reading of students will be discussed in class. Open to graduate students only. 3 s.h. PROFESSOR BROWNELL

**227. The Psychology of Learning: Problems.**—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. 3 s.h. (E) ASSOCIATE PROFESSOR EASLEY  
[Not offered in 1949-50]

**228. The Psychology of Learning: Theoretical and Experimental.**—In this semester the laws of learning, the most important explanatory principles, and the major systems of psychology of learning will be considered. Class



experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. **3 s.h. (E)**

ASSOCIATE PROFESSOR EASLEY

[Not offered in 1949-50]

**237. Investigations in Reading.**—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing, diagnosis, and supervision; emphasis on problems requiring further investigation. **3 s.h. (E)**

ASSOCIATE PROFESSOR RUDISILL

**247. Investigations in Arithmetic.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. Second semester. **3 s.h. (E)**

PROFESSOR BROWNELL

**258. Educational Measurements.**—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester hours in the Department, including a course in educational psychology. **3 s.h. (E)**

[Not offered in 1949-50]

#### FOR GRADUATES

**307-308. Seminar in Educational Psychology.**—**4 s.h. (E)**

[Not offered in 1949-50]

PROFESSOR BROWNELL

**318. Educational Implications of Genetic Psychology.**—A study of the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization, etc. Prerequisite: six semester hours of psychology or educational psychology. **3 s.h. (E)**

PROFESSOR BROWNELL

**320. Advanced Educational Statistics.**—This course continues the work begun in Education 209, dealing particularly with further methods of correlation and with various applications to the theory of measurement. The course does not require a background of mathematics beyond high-school algebra. **3 s.h.**

[Not offered in 1949-50]

**338. Research in Reading.**—A course designed for students who have original problems in reading which they desire to investigate. Such studies may be either individual or co-operative. Education 237 is advised as a preliminary course, but is not required. **3 s.h.**

PROFESSOR CARR

[Not offered in 1949-50]

**339. Research Course in Educational Tests.**—A study of problems in the construction and interpretation of tests. Prerequisite: the equivalent of course 258. **3 s.h.**

[Not offered in 1949-50]

**348. Research in Arithmetic.**—A course designed for students who have original problems in arithmetic which they desire to investigate. Such studies may be either individual or co-operative. Education 247 is advised as a preliminary course, but is not required. **3 s.h.**

PROFESSOR BROWNELL

[Not offered in 1949-50]

#### HISTORY AND PHILOSOPHY OF EDUCATION

##### FOR SENIORS AND GRADUATES

**200. Introduction to the Philosophy of Education.**—A consideration of fundamental concepts underlying educational theory. **3 s.h.**

[Not offered in 1949-50]



**204. The School as an Institution.**—The place of the school in society, its history and philosophy. This is one of the courses required for the Master of Education degree without thesis. Selected problems guiding the reading of students will be discussed in class. Open to graduate students only. **3 s.h.**

ASSOCIATE PROFESSOR BOLMEIER

**214. History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. **3 s.h.**

[Not offered in 1949-50]

**232. Supervision of Instruction.**—**3 s.h. (E)**

PROFESSOR CARR

**244. Studies in the Historical Development of Public School Administration.**—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. **3 s.h.**

[Not offered in 1949-50]

**254. History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and federal aid. **3 s.h.**

PROFESSOR PROCTOR

[Not offered in 1949-50]

**264. Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. **3 s.h.**

[Not offered in 1949-50]

## PUBLIC SCHOOL ADMINISTRATION

### FOR SENIORS AND GRADUATES

**203. Principles of School Administration.**—The fundamental facts and procedures of school administration, an analysis of the problems and policies of the organization and direction of a local school system, and the functions of the various school officials. Prerequisite: Education 103 and 88, or six semester hours of equivalent work in education. **3 s.h.**

ASSOCIATE PROFESSOR BOLMEIER

**213. Problems in the Organization and Administration of the Elementary School.**—A study of the work of the elementary school principal. Second semester. **3 s.h.**

PROFESSOR PROCTOR

**233. Administrative Pupil-Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests, and some practice in the computation of statistical measures. **3 s.h.**

[Not offered in 1949-50]

PROFESSOR PROCTOR

**234. Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. **3 s.h.**

ASSOCIATE PROFESSOR BOLMEIER

**253. Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. **3 s.h.**

[Not offered in 1949-50]

## EDUCATION

## FOR GRADUATES

**323. Public School Finance.**—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. Second semester. 3 s.h.

ASSOCIATE PROFESSOR STUMPF

**330-331. Public School Administration, Seminar I.**—This seminar is to be taken in the second year of the Ed.D. program. It involves consideration of the following four units of work: (1) organizing the school system; (2) administering the educational program; (3) financing the educational program; (4) administering the school personnel. 6 s.h. each semester.

PROFESSORS CARR AND PROCTOR, AND ASSOCIATE  
PROFESSORS BOLMEIER AND STUMPF

**343. State and County School Administration.**—A study of state and county organization of public schools, emphasizing underlying principles. 3 s.h.

PROFESSOR PROCTOR

**363. City School Administration.**—A study of the organization and administration of city school systems, including administrative phases of supervision. 3 s.h.

PROFESSOR PROCTOR

[Not offered in 1949-50]

## SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

## FOR SENIORS AND GRADUATES

**205. Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. 3 s.h. PROFESSOR CHILDS

**206. Sociological Foundations of the Secondary School Subjects.**—A consideration of the aims and objectives of the secondary school. Prerequisites: six semester hours in education, including course 105. 3 s.h. (E)

PROFESSOR CHILDS

**215. Educational and Vocational Guidance.**—A survey of the literature on guidance with special reference to secondary education; a critical study of the principles and techniques used in guidance; an attempt to locate the problems most urgently in need of solution. Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h. (E)

PROFESSOR CHILDS

[Not offered in 1949-50]

**225. The Teaching of History and the Social Studies.**—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h.

ASSOCIATE PROFESSOR MANCHESTER

**246. The Teaching of Mathematics.**—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (E) PROFESSOR RANKIN

[Not offered unless justified by enrollment]

## NURSING EDUCATION

**310. Nursing Education: Organization and Administration in Nursing Schools.**—The organization and administration of schools of nursing; their administrative control and support, the preparation of the budget, the faculty organization, the administration of the curriculum, the provision of instructional facilities, records and reports, and professional and public relations. Problems involved in organizing and administering a hospital nursing service are also presented and relationships between the School of Nursing and the nursing service are discussed. Year course. 4 s.h.

PROFESSOR NAHM

[Not offered in 1949-50]

**311. Nursing Education: Problems of Personnel Administration in Nursing.**—A course which deals with problems in the organization and administration of personnel services for students and for graduate nurses. It includes a discussion of methods of selection and orientation, personnel records, provision for general welfare, counseling, placement and follow-up. Year course. **4 s.h.**

PROFESSOR NAHM

[Not offered in 1949-50]

**312. Nursing Education: Research Problems.**—To acquire some knowledge of the principles and methods of research each student works on an individual problem in the field of her major interest. Year course. **4 s.h.**

[Not offered in 1949-50]

PROFESSOR NAHM

#### METHODOLOGY OF RESEARCH

##### FOR GRADUATES

**301. Methods of Educational Research: Seminar.**—Graduate students are instructed in methods of research as applied to selected educational problems. Each student must select for intensive study and practice a subject in which he is interested. Either semester. **3 s.h.**

PROFESSORS BROWNELL, CARR, CHILDS, AND PROCTOR

#### RELATED COURSES IN OTHER DEPARTMENTS

##### FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION, AND SECONDARY EDUCATION

**Philosophy 231-232. The Philosophy of Science, I, II.**—3 s.h. each semester.

ASSOCIATE PROFESSOR LEONARD

**Philosophy 242. Scientific Methodology.**—3 s.h.

ASSOCIATE PROFESSOR LEONARD

**Psychology 206. Social Psychology.**—3 s.h.

**Psychology 207. Psychology of Memory, Thinking, Perceiving.**—3 s.h.

PROFESSOR ZENER

**Psychology 209. Experimental Methods in Human Psychology.**—4 s.h.

PROFESSOR ZENER

**Psychology 212. Physiological Psychology.**—3 s.h.

PROFESSOR ZENER

**Psychology 215. Developmental Psychology.**—3 s.h.

PROFESSOR ADAMS

**Psychology 226. Psychology: Historical and Theoretical.**—3 s.h.

PROFESSOR ZENER

**Psychology 306. Seminar in Child Psychology.**—2 or 3 s.h.

PROFESSOR ADAMS

**Psychology 309. Theory of Learning.**—3 s.h.

[Not offered in 1949-50]

PROFESSOR ADAMS

**Psychology 310. Seminar: Selected Problems in the Dynamics of Behavior.**—3 s.h.

PROFESSOR ZENER

**Sociology 249. Child Welfare.**—3 s.h.

PROFESSOR JENSEN

**Sociology 381. Principles of Sociology.**—3 s.h.

[Not offered in 1949-50]

PROFESSOR JENSEN

**Sociology 382. History of Sociological Theory.**—3 s.h.

PROFESSOR JENSEN

##### FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

**Economics 217. Population Problems and Resources.**—3 s.h.

PROFESSOR SPENGLER

- Economics 230. Public Debts in the United States.—3 s.h. PROFESSOR RATCHFORD
- Economics 233. State and Local Finance.—3 s.h. PROFESSOR RATCHFORD
- Political Science 209. State and Local Government in the United States.—3 s.h. PROFESSOR RANKIN
- Political Science 230. American Political Institutions.—3 s.h. PROFESSOR RANKIN
- Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN
- Political Science 292. Municipal Administration.—3 s.h. PROFESSOR RANKIN
- Sociology 233. Rural Sociology.—3 s.h. PROFESSOR THOMPSON
- Sociology 235. Urban Sociology.—3 s.h. PROFESSOR THOMPSON
- Sociology 237. Community and Society.—3 s.h. PROFESSOR THOMPSON

## FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

- History 209-210. Constitutional History of the United States, 1763-1860.—6 s.h.  
[Not offered in 1949-50]
- Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY
- Philosophy 208. Political Philosophy.—3 s.h. PROFESSOR NEGLEY
- Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR PATTERSON
- Religion 395. Religious Thought in Colonial America.—3 s.h. PROFESSOR SMITH
- Religion 396. American Religious Thought in the Nineteenth Century.—3 s.h. PROFESSOR SMITH
- Sociology 286. Social Ethics.—3 s.h. PROFESSOR HART
- Sociology 381. Principles of Sociology.—3 s.h.  
[Not offered in 1949-50] PROFESSOR JENSEN
- Sociology 382. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

## ENGLISH

PROFESSOR IRVING, ACTING CHAIRMAN—265 WEST DUKE BUILDING; PROFESSOR BAUM, DIRECTOR OF GRADUATE STUDIES—402 LIBRARY; PROFESSORS BRINKLEY, GILBERT, GOHDES, AND HUBBELL; ASSOCIATE PROFESSORS LEARY, TALBERT, AND WARD

Candidates for the degree of Master of Arts are required to elect 203-204 (3 or 6 s.h.). They will also elect one of the period courses (215-216, 219-220, 221-222, 223-224, 229-230, 233-234, 247-248, 249-250, 251-252) and its corresponding seminar (349-350); and 12 (or 9) additional semester hours.

## FOR SENIORS AND GRADUATES

201-202. *Anglo-Saxon*.—In the first semester, an introduction to the language, with the reading of selected prose and of some of the shorter poems; in the second semester, the *Beowulf*. 6 s.h. (w) PROFESSOR BAUM  
[Not offered in 1949-50]

203-204. *Chaucer*.—Reading and interpretation of the text; in the first semester, the principal *Canterbury Tales*; in the second, the *Troilus* and the minor poems. A reading report and a term paper. 6 s.h. (w) PROFESSOR BAUM



**205-206. Middle English.**—Close study of selected texts, with attention to the development of the language and to the history of the literature from 1200 to 1400. A term paper each semester. **6 s.h. (w)** PROFESSOR BAUM

**215-216. Elizabethan Drama.**—Careful study of one or two major dramatists (Jonson or Beaumont and Fletcher) and extensive reading in the other writers (Heywood, Ford, Massinger, Marlowe, Middleton) with emphasis on the nature and qualities of their work in relation to its historical background. Exposition of plays, reports, and a term paper each semester. **6 s.h. (w)** PROFESSOR GILBERT AND ASSOCIATE PROFESSOR TALBERT

**217. Milton.**—Milton's poetry and prose, with emphasis on the major poems. **3 s.h. (w)** PROFESSOR GILBERT  
[To be offered in spring semester]

**218. Spenser.**—The reading of Spenser's work, with chief attention to *The Faerie Queene*. **3 s.h. (w)** PROFESSOR GILBERT  
[Not offered in 1949-50]

**219-220. The Eighteenth Century.**—Swift, Pope, Defoe, Addison, Steele, and others are studied in the first semester; in the second, Gray, Johnson, Boswell, Goldsmith, the letter writers, and the early Romantic poets. Lectures, oral reports, and a term paper each semester. **6 s.h. (w)** PROFESSOR IRVING

**221-222. English Literature of the Early Nineteenth Century.**—The British Romantic poets and prose writers from Scott to the early Carlyle, with special attention to Wordsworth, Coleridge, and Keats. While these writers will be approached historically, the main object will be to understand and estimate the aesthetic and ethical values of their writings. Discussion and short papers. **6 s.h.**

[Not offered in 1949-50]

**223-224. English Literature of the Later Nineteenth Century.**—Some of the most important works of the period are discussed in class; the background is filled in by lectures and assigned reading. The first semester is devoted chiefly to Carlyle, Dickens, Thackeray, Tennyson, and Browning; the second semester to Arnold, Ruskin, Pater, George Eliot, Meredith, the Pre-Raphaelites, and Swinburne. A term paper each semester. **6 s.h. (w)** PROFESSOR BAUM  
[Not offered in 1949-50]

**227. Literary Criticism.**—A study of the Greek and Roman critics, in chronological order but with emphasis on their permanent value rather than on the mere history; also of the Continental and English critics to about 1700. Lectures, reports, and a term paper. **3 s.h. (w)** PROFESSOR GILBERT

**229-230. American Literature, 1800-1870.**—The writers, emphasized in the first semester are Emerson, Thoreau, and Hawthorne; in the second semester, Poe and Melville. In the first semester some attention is given also to Edwards, Franklin, Bryant, Longfellow, Holmes, Whittier, Lowell, and Parkman; and in the second semester, to Byrd, Jefferson, Paine, Freneau, Brown, Irving, Cooper, Kennedy, Simms, Timrod, and Lincoln. An oral report and a term paper in the first semester. **6 s.h. (E)** PROFESSOR HUBBELL

**233-234. American Literature since 1870.**—Selected works of the chief writers of the period, including Whitman, Lanier, Mark Twain, James, Howells, Emily Dickinson, Crane, Dreiser, and others. The lectures deal with the social background and with the careers of the leading authors. One test and one term paper each semester. **6 s.h. (E)** PROFESSOR GOHDES

**235. History of American Drama.**—The development of the theater and of dramatic literature in America. Emphasis will be placed on the drama as a reflection of the philosophical and social influences which affected American writing in other fields. **3 s.h. (w)** ASSOCIATE PROFESSOR LEARY  
[Not offered in 1949-50]

**237. English Drama, 1642-1800.**—The Heroic Play and the Comedy of Manners of the Restoration period; and the important plays, serious and comic, of the eighteenth century. Lectures, class discussions, and short reports. **3 s.h.** (w) ASSOCIATE PROFESSOR WARD

[Not offered in 1949-50]

**239. Shakespeare Problems.**—A study of the plays and poems as an introduction to problems involved in establishing and in interpreting the texts and in determining the nature and quality of the works in relation to their background. Lectures, short reports on assigned topics, and a term paper. **3 s.h.** (w) ASSOCIATE PROFESSOR TALBERT

[Not offered in 1949-50]

**241. Studies in Dryden.**—A detailed study of the poet's non-dramatic work. Lectures on the political, religious, and literary background. A term report. **3 s.h.** (w) ASSOCIATE PROFESSOR WARD

[Not offered in 1949-50]

**245-246. Italian Writers in English Translation.**—The first semester is devoted to Dante; the second, to such authors as Lorenzo de' Medici, Pulci, Boiardo, Machiavelli, Ariosto, Sannazaro, Castiglione, Aretino, Tasso, and Marini. Attention will be given to the interrelations of English and Italian literature. **6 s.h.** (E) VISITING PROFESSOR ORSINI

[Not offered in 1949-50]

**247-248. American Literature to 1800.**—The history of the literature and the background and development of American thought in the seventeenth and eighteenth centuries. The first semester will cover the Colonial period, the second semester the revolutionary and early national periods. Lectures, discussion, and a term paper each semester. **6 s.h.** (w) ASSOCIATE PROFESSOR LEARY

[Not offered in 1949-50]

**249-250. English Literature in the Sixteenth Century.**—In the first semester, the beginnings of the drama; Barclay and Skelton; More, Elyot, Cheke, and their circles; Ascham; *Tottel's Miscellany* and *A Mirror for Magistrates*; Gascoigne; North, Sir Thomas Hoby, and the translators; Lyly; Spenser. In the second semester, Sidney; the sonnet sequences; Marlowe, Kyd, and Peele; Greene, Lodge, Nashe, and Dekker; Shakespeare; Chapman; Jonson. Some of the most important works of the period are discussed in class; the background is filled in by lectures and assigned readings. Short reports on assigned topics and a term paper each semester. **6 s.h.** (w)

ASSOCIATE PROFESSOR TALBERT

**251-252. English Literature in the Seventeenth Century.**—A survey of the major works in prose, poetry, and drama from 1600 to the death of Dryden. Lectures, reports, and a term paper each semester. ASSOCIATE PROFESSOR WARD

**269-270. Southern Literature.**—The principal writers discussed during the first semester are Byrd, Jefferson, Wirt, Kennedy, the Cooke brothers, Legaré, Simms, Timrod, Hayne, Longstreet and other humorists, and the poets of the Civil War. Considerable attention is paid to the historical and cultural background and to Northern and British authors who wrote about the South. An oral report and a term paper each semester. **6 s.h.** (w) PROFESSOR HUBBELL  
[269 will be offered in the spring semester.]

#### FOR GRADUATES

**303. Coleridge.**—A study of Coleridge's work as poet and critic, with special emphasis upon his relation to the seventeenth century. Lectures, written and oral reports, one long paper. **3 s.h.** (E) PROFESSOR BRINKLEY

[Not offered in 1949-50]

**304. Studies in the Metaphysical Poets.**—Donne and his followers and their relationship to twentieth-century poetry. Lectures, discussions, reports. Occasional short papers, and a longer study of one poet. **3 s.h.** (E)  
[Not offered in 1949-50] PROFESSOR BRINKLEY

**349-350. Seminar Courses.**—An introduction to bibliography and methods of research. One of these courses is required of all candidates for the degree of Master of Arts. **6 s.h.** (w)

(a) **Sixteenth and Seventeenth Centuries.**

PROFESSOR GILBERT AND ASSOCIATE PROFESSOR WARD

(b) **Eighteenth Century.**

PROFESSOR IRVING

(c) **Early Nineteenth Century.**

(d) **Later Nineteenth Century.**

PROFESSOR BAUM

(e) **American Literature.**

PROFESSORS HUBBELL, GOHDES AND  
ASSOCIATE PROFESSOR LEARY

[In 1949-50 (a), (b), and (e) will be offered; and (d) (**3 s.h.**) in the spring semester.]

**359-360. Research Courses.**—Opportunity for advanced study; intended specially for candidates for the Ph.D. degree. **3 or 6 s.h.** (w) STAFF

#### RELATED COURSES IN OTHER DEPARTMENTS

The attention of students in English is directed to the following courses:  
**German 201-202. Goethe.**—**6 s.h.**

**German 301-302. Gothic—Middle High German.**—**6 s.h.**

PROFESSOR VOLLMER

**Greek 201-202. Greek Tragedy.**—**6 s.h.** ASSISTANT PROFESSOR TRUESDALE

**History 207-208. Social and Cultural History of the United States.**—**6 s.h.**  
ASSOCIATE PROFESSOR ROBERT

**History 221-222. The Age of the Renaissance.**—**6 s.h.**

ASSOCIATE PROFESSOR NELSON

**History 337. Social and Economic Life of the Old South.**—**4 s.h.**

[Not offered in 1949-50]

PROFESSOR SYDNOR

**Philosophy 201-202. The Philosophy of Art.**—**6 s.h.** (E) PROFESSOR GILBERT

**Philosophy 213-214. History of Aesthetics.**—**6 s.h.** (E) PROFESSOR GILBERT

**Psychology 202. Psychology of Aesthetics.**—**3 s.h.** PROFESSOR LUNDHOLM

**Romance Languages 213, 214.—French Classicism.**—**6 s.h.**

PROFESSOR WALTON

**Romance Languages 215-216. The Modern French Novel.**—**6 s.h.**

PROFESSOR JORDAN

**Romance Languages 219. Old French.**—**3 s.h.**

PROFESSOR COWPER

**Romance Languages 232. Rousseau and the Beginnings of Romanticism.**—**6 s.h.**  
PROFESSOR COWPER

#### FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—FEW  
QUADRANGLE, HOUSE GG-010; PROFESSORS BEAL, COILE, HARRAR,  
KRAMER, SCHUMACHER, THOMSON, AND WOLF

Major and minor work is offered in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees to students

who have received degrees from professional schools of forestry of recognized standing or from approved colleges or universities. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, silvics, forest soils, forest mensuration, forest management, forest entomology, and forest economics, except that a major cannot be taken in forest management. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them. Students who do not have previous training in forestry will be required to complete a minimum of thirty semester hours of approved work in the Division of Forestry as a preliminary requirement for admission to candidacy for the A.M. and Ph.D. degrees. These men will not be regarded as professionally trained foresters. For information on professional training in forestry, see *Bulletin of the School of Forestry*.

#### FOR SENIORS AND GRADUATES

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h.

PROFESSOR WOLF

**231. Forest Entomology.**—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. 3 s.h.

PROFESSOR BEAL

**251. Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. 2 s.h.

PROFESSOR SCHUMACHER

**252. Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. 2 s.h.

PROFESSOR SCHUMACHER

**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 3 s.h.

PROFESSOR HARRAR

**257. Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. 5 s.h.

PROFESSOR SCHUMACHER

**258. Properties of Wood.**—Anatomical, chemical, and non-mechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: one year of botany and Chemistry 1 and 2, or equivalent. 3 s.h.

PROFESSOR HARRAR

**261. Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in humid climates; morphological, physical, and chemical properties of soils in relation to growth of trees; effect of forests on soils. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology, mineralogy, petrology, and analytical chemistry are also desirable. 3 s.h.

PROFESSOR COILE

**264. Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h.

PROFESSOR KORSTIAN



**277. Forestry Policy.**—Critical study of forestry movement and development of a forestry policy, particularly in the United States; brief résumé of forestry in important foreign countries; public land laws of the United States; development of federal and state forestry; forestry laws. **2 s.h.**

PROFESSOR THOMSON

**278. Economics of Forestry.**—Principles of forest economics. Contributions of land, labor, and capital to income from forestry enterprises; costs of production and maintenance of forest income; forest resources and requirements in products and services; consumption and prices of forest products; forest ownership problems; forest appraisal and comparative valuation; forest fire insurance and forestry credit; forest taxation; timber marketing problems; effect of business cycles and long-term trends upon demand and prices of forest products. Prerequisite: at least one course in the principles of economics. **3 s.h.**

PROFESSOR THOMSON

#### FOR GRADUATES

**323-324. Advanced Forest Pathology.**—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged.

PROFESSOR WOLF

**351-352. Advanced Physiology of Forest Trees.**—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.

PROFESSOR KRAMER

**354. Forest Soil Fertility.**—Experimental approach to the problems of fertility in forest soil. Influence of stand composition on nitrogen transformation. Methods of studying the exchange complex and the significance of base exchange in forest soil fertility. Prerequisites: Forestry 251 and 261, plant physiology, bacteriology and analytical chemistry. **3 s.h.**

PROFESSOR COILE

**356. Economic Forces in Forestry.**—Critical analysis of classical and contemporary doctrines of comparative forest valuation. Principles underlying the measurement of forces affecting values of land for forestry and alternative uses and investments of capital. Solution of problems involving procedures based upon these principles. Prerequisites: Forestry 278 or equivalent; courses in economic theory are desirable. **2 s.h.**

PROFESSOR THOMSON

**357-358. Research in Forestry.**—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the following branches of forestry:

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.

PROFESSOR COILE

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.

e. **Forest Economics.**—Prerequisite: Forestry 278 or equivalent.

PROFESSOR THOMSON

f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 258 and 260, or equivalents.

PROFESSOR HARRAR

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents.

PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent.

PROFESSOR BEAL

## GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—205 PAGE;  
ASSISTANT PROFESSOR SHEARS

201-202. **Goethe.**—A careful study of Goethe's life and works, with special emphasis upon the broader aspects of his ever-widening interests and literary activities. 6 s.h.

203-204. **Eighteenth Century.**—Eighteenth-century German literature in its relation to contemporary European philosophy. 6 s.h.

PROFESSOR VOLLMER

205-206. **Middle High German.**—The language and literature of Germany's first classical period. 6 s.h.

PROFESSOR VOLLMER

207-208. **German Romanticism.**—The course covers the entire field of German Romanticism from 1800 to 1850. 6 s.h.

PROFESSOR VOLLMER

209-210. **Kleist, Grillparzer, and Hebbel.**—A study of the leading representatives of German drama in the first half of the nineteenth century. 6 s.h.

211-212. **Heinrich Heine.**—A study of the German poet and his immediate successors in the movement known as *Jungdeutschland*. 6 s.h.

[Offered in 1949-50]

PROFESSOR VOLLMER

213-214. **Literature of the Empire, 1871-1914.**—A study of the literature of this period with special emphasis on a few leading writers such as Fontane, Hauptmann, Mann and Hesse. 6 s.h.

[Offered in 1949-50]

ASSISTANT PROFESSOR SHEARS

## FOR GRADUATES ONLY

301-302. **Gothic—Middle High German.**—In the first term the essentials of Gothic morphology, phonology, and grammar are investigated, and original Gothic literature is read. In the second term the leading medieval German epics are read in the original. 6 s.h.

PROFESSOR VOLLMER

303-304. **German Seminar.**—A seminar will be conducted in an eighteenth- or nineteenth-century field for properly qualified students. Credit to be arranged.

PROFESSOR VOLLMER

## RELATED COURSES IN OTHER DEPARTMENTS

The following courses in other departments are recommended to students, who are majoring in Germanics, as particularly valuable in building a proper background for Germanic studies:

(a) Graduate courses in literature or philology, offered by the ancient and modern language departments, to be selected after consultation with the Germanic Department.

(b) Graduate courses in history and philosophy, offered by those departments, to be selected after consultation with the Germanic Department.

## HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST DUKE BUILDING; PROFESSORS CARROLL, CLYDE, LANNING, AND SYDNOR;

ASSOCIATE PROFESSORS CURTISS, MANCHESTER, NELSON, ROBERT, ROPP, AND WOODY; ASSISTANT PROFESSOR PARKER

For admission to candidacy for a Master's degree in History the student must present a total of eighteen semester hours of prior work in History, of which at least six must be in American History if he plans to take his major work in that field.

In addition to the preliminary examination described on page 36, a candidate

for the degree of Doctor of Philosophy in history is required to pass, prior to the oral examination on his thesis and his major field, final examinations in three fields of history in addition to his major field; a related subject may be substituted for one of these three fields. The history of the United States and the history of Western Europe must constitute two of these fields unless the major is in the history of the United States or in the history of Western Europe, in which case examination in that field is a part of the final oral examination. The Department is at present prepared to offer graduate instruction in the following fields of history: The history of Western Europe to 1648; the history of Western Europe since 1648; the history of the United States; the history of England; the history of Latin America; the history of American Foreign Relations; the history of the Modern Far East; the history of Russia.

### AMERICAN HISTORY

#### FOR SENIORS AND GRADUATES

**203-204. The United States, 1850-1900.**—The rise of sectionalism, secession, wartime problems of the Union and Confederacy, political and economic adjustments of Reconstruction, the status of the Negro, the New South, problems of capital and labor, the agrarian revolt, political parties and reform, the Spanish-American War. **6 s.h.**

ASSOCIATE PROFESSOR WOODY

[Not offered in 1949-50]

**207-208. Social and Cultural History of the United States.**—A study of American life and manners with emphasis on the social effects of a changing economy, including religious, educational, and reform movements. **6 s.h.**

ASSOCIATE PROFESSOR ROBERT

**209-210. Constitutional History of the United States, 1763-1860.**—A study of the Colonial foundations of American constitutional attitudes, the constitutional aspects of the American Revolution, the framing and ratification of the Constitution, the statehood process and the extension of democracy, the constitutional implications of sectional conflict, and the Supreme Court in its relation to the problems of an industrial America. **6 s.h.**

[Not offered in 1949-50]

**215-216. Foreign Policy and Diplomacy of the United States.**—The work in the first semester, covering the period 1775-1877, deals with such topics as the origins and evolution of basic foreign policies; isolation from Europe; paramount interests in Latin America, including the Monroe Doctrine; international co-operation in the Far East. The work in the second semester, covering the period since 1877, deals with such topics as the rise of the new Manifest Destiny; beginnings of American imperialism in Latin America and the Far East; the failure of traditional neutrality in the first World War; postwar conflicts between isolation and collective security; involvement in the second World War. **6 s.h.**

PROFESSOR CLYDE

**230. The Portuguese Empire and the Rise of Brazil.**—The course will deal with Portuguese explorations, the establishment of the Portuguese Empire in the East, the transplanting of Portuguese culture overseas, and the rise of a native Brazilian civilization. **3 s.h.**

ASSOCIATE PROFESSOR MANCHESTER

**231. The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. **3 s.h.**

PROFESSOR LANNING

**232. The Hispanic American Republics of the New World.**—**3 s.h.**

PROFESSOR LANNING

**233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h.**

[Not offered in 1949-50]

PROFESSOR LANNING

**234. Political and Social Problems in the Hispanic American Republics.—3 s.h.**

[Not offered in 1949-50]

PROFESSOR LANNING

**263-264. American Colonial History and the Revolution, 1606-1783.—The growth of institutions and economic life in the English colonies; the American Revolution. 6 s.h.**

ASSOCIATE PROFESSOR WOODY

**265-266. The Westward Movement in the United States.—A study of the progress of settlement from the Atlantic to the Pacific Coast with especial attention to the transmission of culture, developments in transportation, the transition from agrarian to urban communities, the process of state making, and the social, economic, and political effects of the westward march upon the United States as a whole. 6 s.h.**

[Not offered in 1949-50]

#### FOR GRADUATES

**315. Seminar in Southern History.—Year course. 2 s.h.**

PROFESSOR SYDNOR

**321. Seminar in the History of Spain and the Spanish-American Colonies.—Year course. 2 s.h.**

PROFESSOR LANNING

**336. The South in Federal Politics, 1789-1860.—The interests and political actions of the South on such questions as public lands, internal improvements, foreign policy, the tariff and slavery; the political techniques and theories of the South. Year course. 4 s.h.**

PROFESSOR SYDNOR

**337. Social and Economic Life of the Old South.—Conditions and trends in the South in respect to population movements, transportation, agriculture, slavery, urban life, commerce, manufacturing, religion, education, and other intellectual activities. Year course. 4 s.h.**

PROFESSOR SYDNOR

[Not offered in 1949-50]

#### EUROPE AND THE FAR EAST

##### FOR SENIORS AND GRADUATES

**217-218. Europe since 1870.—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influence. 6 s.h.**

PROFESSOR CARROLL

**219-220. The History of the European Proletariat.—This course is concerned chiefly with the origins, expansion, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. 6 s.h.**

PROFESSOR CARROLL

[Not offered in 1949-50]

**221-222. The Age of the Renaissance.—The decline of characteristic features of medieval civilization and the rise of modern European institutions with particular attention to intellectual movements from Dante to Erasmus. 6 s.h.**

ASSOCIATE PROFESSOR NELSON

**225-226. The Age of the Reformation.—A survey of European civilization from 1500 through the Peace of Westphalia. 6 s.h.**

[Not offered in 1949-50]

ASSOCIATE PROFESSOR NELSON



**227-228. The Napoleonic Empire and Its Aftermath.**—A study in the first term of the conditions favoring the rise of Napoleon, the details of his rise to power, the characteristics of his Empire, its importance for European civilization, its decline and collapse, and the attempt of the conservatives at the Congress of Vienna to restore in part the pre-revolutionary world. The theme in the second term is the gradual disintegration of the settlement of Vienna through the ensuing decades to the unification of Germany in 1871. **6 s.h.**

[Not offered in 1949-50]

ASSISTANT PROFESSOR PARKER

**235. War in the Modern World.**—This course, which deals with military and naval history since Napoleon, is concerned with the relations between war and modern political, economic, or social conditions rather than with the details of battles. Special attention is given to British and American military methods and to events in the American Civil War and the two World Wars. **3 s.h.**

ASSOCIATE PROFESSOR ROPP

**241-242. Nationalism and Revolutionary Movements in the Far East since 1900.**—The course deals with the industrialization of modern Japan and the rise of militaristic and totalitarian trends; modernization, republican, and communist movements in China; nationalism in Southeast Asia; American relations with these developments. **6 s.h.**

[Not offered in 1949-50]

PROFESSOR CLYDE

**261-262. Russia in the Twentieth Century.**—A study of the background of the Revolution of 1917 followed by an analysis of the history and policies of the Soviet state. **6 s.h.**

ASSOCIATE PROFESSOR CURTISS

#### FOR GRADUATES

**305. Seminar in the History of England and the British Empire.**—The work consists of practical training in the methods of historical research based on sources for modern British history. Year course. **2 s.h.**

PROFESSOR LAPRADE

**317. Seminar in Recent European History.**—Year course. **2 s.h.**

PROFESSOR CARROLL

**325. British Nationality and Public Opinion.**—A study of the various political and social groups that have contended for power in England since the sixteenth century and the methods they used. Year course. **4 s.h.**

[Not offered in 1949-50]

PROFESSOR LAPRADE

**327. Modern Phases of the English Constitution.**—A brief review of the medieval constitution followed by a more intensive study of certain aspects of its development in the sixteenth, seventeenth, and eighteenth centuries. Year course. **4 s.h.**

PROFESSOR LAPRADE

**343. Seminar in the History of American Foreign Relations and the Far East.**—Year course. **2 s.h.**

PROFESSOR CLYDE

#### HISTORIOGRAPHY AND THE TEACHING OF HISTORY

##### FOR SENIORS AND GRADUATES

**211. The Teaching of History and the Social Studies.**—The work consists of a discussion of the question of aims and values in teaching history and civics, textbooks, programs of study, methods of instruction, the use of maps and pictures, the making of lesson plans for use in the high school, and other problems of high-school teaching. **3 s.h.**

ASSOCIATE PROFESSOR MANCHESTER

##### FOR GRADUATES

**320. Historiography.**—A critical study of the process of finding, appraising, and interpreting the sources of history and of the presentation of the results in narrative. Works of important historians from Herodotus to the

present are analyzed. The student undertakes specific exercises in research, criticism, and narration. There is consideration of such general topics as schools, theories, philosophies, and the function of history. Year course. **4 s.h.**  
ASSOCIATE PROFESSOR NELSON

This course is required of all candidates for the degree of Doctor of Philosophy who are in residence as many as two years at Duke University unless excused therefrom by the Department.

**329. Historiography of the South.**—Attention is given to the more important printed and manuscript sources and to the writings of the older historians. Bibliographical and research problems are introduced. Year course. **4 s.h.**  
ASSOCIATE PROFESSOR WOODY

[Not offered in 1949-50]

#### RELATED COURSES IN OTHER DEPARTMENTS

**Economics 215. Economic Systems.**—3 s.h. PROFESSOR HOOVER

**Economics 216. Economic Functions of the State.**—3 s.h.  
PROFESSOR HOOVER

**Economics 231. Economic History of Modern Europe.**—3 s.h.  
PROFESSOR SMITH

**Economics 311-312. History of Political Economy.**—6 s.h.  
PROFESSOR SPENGLER

**Political Science 223. Political Thought to the Seventeenth Century.**—3 s.h.  
PROFESSOR WILSON

**Political Science 224. Modern Political Theory.**—3 s.h.  
PROFESSOR WILSON AND ASSOCIATE PROFESSOR HALLOWELL

**Religion 309. History of the Ancient Near East.**—3 s.h.  
[Not offered in 1949-50] PROFESSOR STINESPRING

**Religion 395. Religious Thought in Colonial America.**—3 s.h.  
PROFESSOR SMITH

**Religion 396. American Religious Thought in the Nineteenth Century.**—3 s.h.  
PROFESSOR SMITH

**Sociology 382. History of Sociological Theory.**—3 s.h. PROFESSOR JENSEN

#### MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN—201-I PHYSICS BUILDING; PROFESSOR ROBERTS,  
DIRECTOR OF GRADUATE STUDIES—201-I PHYSICS BUILDING; PROFESSORS  
CARLITZ, ELLIOTT, RANKIN, AND THOMAS; ASSOCIATE PROFESSOR  
DRESSEL

The Department normally offers one or more courses in each of the main divisions of mathematics: algebra, analysis, geometry, and applied mathematics.

The Master's degree with major in mathematics is awarded primarily on the basis of scholarship. The candidate's preliminary mathematical work for the degree must be approved by the Department through the Director of Graduate Studies. It must include differential and integral calculus and an additional six semester hours of work in mathematical courses of at least Junior level. Eighteen of the twenty-four semester hours of course work required by the general regulations for the degree must be taken in the Department.

The Doctor's degree with major in mathematics is awarded as a recognition of potential ability and training in research. The original dissertation is the most important of the formal requirements for it. A candidate should have this requirement in mind from the outset and plan his courses accordingly.

Because of the important mathematical literature in French and German.

a student taking graduate work in mathematics should have a practical reading knowledge of these languages near the beginning of his graduate study.

The program for 1949-50 is as follows: Fall semester, 227, 235, 271, 285, 291, 325, 351; spring semester, 228, 236, 272, 286, 292, 326, 352.

FOR SENIORS AND GRADUATES

**201. History of Mathematics.**—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. Prerequisite: differential calculus. 3 s.h. PROFESSOR RANKIN

**204. Teaching of Mathematics.**—Fundamental processes, methods of study, mathematical literature, content of courses, applications, use of instruments, correlation of different branches, historical development of secondary school mathematics. Must be preceded or accompanied by integral calculus. 3 s.h. PROFESSOR RANKIN

**226. Galois Theory of Equations.**—Permutation groups, group of an equation, solvability by radicals. Prerequisite: calculus. 3 s.h. PROFESSOR THOMAS

**227-228. Theory of Numbers.**—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: calculus. 6 s.h. PROFESSOR CARLITZ

**229-230. Algebraic Numbers.**—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: theory of equations. 6 s.h. PROFESSOR CARLITZ

**235-236. Abstract Algebra.**—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: calculus. 6 s.h. PROFESSOR CARLITZ

**250. Higher Geometry.**—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversions. 3 s.h. PROFESSOR THOMAS

**255-256. Projective Geometry.**—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coordinates, order, continuity, metric properties. Prerequisite: calculus. 6 s.h. PROFESSOR THOMAS

**263-264. Theory of Nomograms.**—A geometrical and analytical study of functions which can be represented by alignment charts. Prerequisite: Mathematics 53; Mathematics 63 is desirable but not necessary as a prerequisite. 6 s.h. PROFESSOR THOMAS

**271-272. Introductory Topology.**—Topological properties of Euclidean spaces, set-theoretic and combinatorial methods. Prerequisite: calculus. 6 s.h. PROFESSOR ROBERTS

**275. Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral, applications to statistics. Prerequisite: calculus. 3 s.h. ASSOCIATE PROFESSOR DRESSEL

**285-286. Mathematical Analysis for Physicists.**—Potentials, Fourier series, Legendre polynomials, Bessel functions, heat equation, wave equation, telegraphic equation, Schrödinger's equation. Prerequisite: calculus. 6 s.h. ASSOCIATE PROFESSOR DRESSEL

**291-292. Theory of Functions.**—Limits, implicit functions, power series, double series, Cauchy's theorem and its applications, residues, Riemann surfaces, conformal mapping. Prerequisite: calculus. 6 s.h. PROFESSOR GERGEN

FOR GRADUATES

**301-302. Algebraic Geometry.**—Homogeneous coordinates, singular points and lines, Newton's polygon, Plücker's equations, intersections of curves. Prerequisite: Mathematics 255-256. 6 s.h. PROFESSOR THOMAS



**325-326. Real Variable.**—Number system, theory of sets, transfinite numbers, Baire classes, Lebesgue, Stieltjes and Denjoy integrals, linear operations. Prerequisite: Mathematics 291-292. 6 s.h. PROFESSOR GERGEN

**331-332. Complex Variable.**—Analytic continuation, univalent functions, meromorphic functions, analytic functions of several complex variables. Prerequisite: Mathematics 291-292. 6 s.h.

**333-334. Analytic Theory of Numbers.**—Distribution of primes, primes in an arithmetic progression, Waring and Goldbach problems. Prerequisite: Mathematics 291-292. 6 s.h. PROFESSOR CARLITZ

**337-338. Existence Theorems.**—Systems of partial differential equations, Pfaffian systems, theorems of Cauchy, Riquier, and Cartan, singular integral varieties. Prerequisite: Mathematics 291-292. 6 s.h. PROFESSOR THOMAS

**341-342. Integral Equations.**—Volterra and Fredholm integral equations, application to boundary problems of differential equations. Prerequisite: differential equations and advanced calculus. 6 s.h. PROFESSOR ELLIOTT

**343-344. Ordinary Differential Equations.**—Solution by separation of variables, exact differentials, integrating factors, solution in series. Cauchy's existence theorem, linear differential systems, singular points, partial differential equations equivalent to ordinary systems. Prerequisite: Mathematics 291-292. 6 s.h. PROFESSOR THOMAS

**351-352. Differential Geometry.**—Curves and surfaces in three-dimensional Euclidean space, applicability, differential parameters, Riemannian geometry of  $n$ -space. Prerequisite: calculus. 6 s.h. PROFESSOR THOMAS

**353-354. Trigonometric Series.**—Topics in the theory of trigonometric series, related results in Lebesgue integration and complex variable. Prerequisite: Mathematics 325-326. 6 s.h. PROFESSOR GERGEN

**371-372. Dimension Theory.**—Abstract spaces, separation theory for Euclidean spaces, dimension theory. Prerequisite: Mathematics 271-272. 6 s.h. PROFESSOR ROBERTS

**373-374. Continuous Transformations.**—Recent results concerning a number of special types of continuous transformations. Prerequisite: Mathematics 271-272. 6 s.h. PROFESSOR ROBERTS

**382. Potential Theory.**—Properties of harmonic functions, boundary value problems, potentials of general mass distributions. Prerequisite: Mathematics 325-326. 3 s.h. PROFESSOR GERGEN

## PHILOSOPHY

ASSOCIATE PROFESSOR LEONARD, EXECUTIVE OFFICER—3-I WEST DUKE BUILDING;  
PROFESSOR PATTERSON, DIRECTOR OF GRADUATE STUDIES—3-I WEST DUKE  
BUILDING; PROFESSORS GILBERT, NEGLEY, AND WIDGERY;  
ASSISTANT PROFESSOR MCLARTY

FOR SENIORS AND GRADUATES

**201-202. The Philosophy of Art.**—Analysis with the aid of examples of general terms used in the discussion of art. Reference to recent aesthetic theories. 6 s.h. (E) PROFESSOR GILBERT

**203. Contemporary Ethical Theories.**—Reading and discussion of twentieth-century American and British moralists. 3 s.h. PROFESSOR NEGLEY

**205. The Philosophy of History.**—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. 3 s.h. PROFESSOR WIDGERY



**208. Political Philosophy.**—Analysis of the structure of social organization, with particular reference to the function of legislation in democratic politics. 3 s.h. PROFESSOR NEGLEY

**209-210. The Philosophy of Religion.**—A critical consideration of the data of empirical religion and the constructive development of modern philosophy of religion. 6 s.h. PROFESSOR WIDGERY

**211. History of Ancient Philosophy.**—An advanced course with textual study of the most important philosophical works. 3 s.h. PROFESSOR PATTERSON

**212. History of Modern Philosophy.**—An advanced course with textual study of the most important philosophical works. 3 s.h. PROFESSOR PATTERSON

**213-214. History of Aesthetics.**—Theories of art and beauty from Pythagoras to Croce. 6 s.h. (E) PROFESSOR GILBERT

**217. The Philosophy of Aristotle.**—Prerequisite: 93 or 211. 3 s.h. ASSISTANT PROFESSOR McLARTY

**218. Mediaeval Philosophy.**—A study of the philosophy of the Middle Ages with special attention to selected texts from the works of Christian, Jewish and Arabian philosophers. 3 s.h. PROFESSOR PATTERSON

**223. Contemporary Philosophy.**—A study of the leading philosophical movements in Europe and America in the last fifty years. 3 s.h. PROFESSOR PATTERSON

**231. Philosophy of Science I.**—An historical and critical survey of the basic philosophical ideas underlying the development of modern science. 3 s.h. ASSOCIATE PROFESSOR LEONARD

**232. Philosophy of Science II.**—Philosophical implications of the methods employed in modern science. 3 s.h. ASSOCIATE PROFESSOR LEONARD

**236. Oriental Philosophy I. Chinese Philosophy.**—3 s.h. PROFESSOR WIDGERY

**238. Oriental Philosophy II. Indian Philosophy.**—3 s.h. PROFESSOR WIDGERY

**241. Logic.**—Fundamental principles of valid deductive reasoning. 3 s.h. ASSOCIATE PROFESSOR LEONARD

**242. Scientific Methodology.**—A survey of the methods used in the various natural and social sciences. 3 s.h. ASSOCIATE PROFESSOR LEONARD

## FOR GRADUATES

**301a-302a, 301b-302b. Seminar in Philosophy.**—Special problems, chiefly metaphysical. 3 s.h. PROFESSOR WIDGERY

**305. Seminar: Spinoza.**—Detailed study of Spinoza's works showing the development of his own thought and his relation to his contemporaries. 3 s.h. PROFESSOR GILBERT

**307. Seminar: Kant.**—3 s.h. PROFESSOR NEGLEY

**308. Seminar: Hegel.**—A study of a selection of the text together with recent interpretations. 3 s.h. PROFESSOR GILBERT

**331-332. Seminar in Special Fields of Philosophy.**—3 s.h. each semester.

(a) Logic; (aa) Philosophy of Science. ASSOCIATE PROFESSOR LEONARD

(b) Ethics; (bb) Political Philosophy. PROFESSOR NEGLEY

(c) Aesthetics. PROFESSOR GILBERT

(d) **Philosophy of Religion**; (dd) **History**. PROFESSOR WIDGERY

(e) and (ee) **History of Philosophy**. PROFESSORS WIDGERY AND PATTERSON

341. **Seminar: Problems of Political and Legal Philosophy**.—3 s.h.  
PROFESSOR NEGLEY

## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN—102 PHYSICS BUILDING; PROFESSOR NORDHEIM,  
DIRECTOR OF GRADUATE STUDIES—103 PHYSICS BUILDING; PROFESSORS  
HATLEY, GORDY, NEWSON, AND SPONER; ASSOCIATE PROFESSOR  
SMITH; ASSISTANT PROFESSOR GREULING

The Department of Physics makes provision for both beginning and advanced graduate students. The courses are designed to give a broad basic foundation in classical and modern physics.

All graduate students will first be expected to acquire a thorough knowledge of the various branches of classical physics as well as some familiarity with modern physics and basic laboratory skills. They will be required to take such course work in the 200 group of studies as may be necessary to complete this foundation.

To complete their course requirements in physics, graduate students will take such advanced courses as will best help them and fit them for the type of work in which they plan to specialize and undertake research. The character of the work in other related departments will also depend upon the field of subsequent specialization and research.

Since a reading knowledge of French and German is highly desirable, students are urged to satisfy the language requirements in both as early as possible.

201-202. **Mechanics**.—The fundamental principles of statics and the dynamics of particles and rigid bodies. Three recitations each week. 6 s.h. (w)  
ASSOCIATE PROFESSOR SMITH

203-204. **Electricity and Magnetism**.—Fundamentals of electricity and magnetism. Electrostatics and magnetostatics. Direct current circuits and networks—bridges, potentiometers, galvanometers, alternating current circuits and networks. Electromagnetic waves. 6 s.h. (w)  
ASSOCIATE PROFESSOR SMITH

205. **Spectroscopy**.—The theory of optical instruments and a discussion of spectroscopic laws and of information obtained by spectroscopic methods. Three lectures and one three-hour laboratory each week. 4 s.h. (w)  
PROFESSOR SPONER

207. **Sound and Acoustics**.—Theory of vibrating systems. Mechanical-electrical-acoustical analogies. Emission and reception of sound, speakers and microphones. Transmission, reflection, refraction, diffraction and absorption of sound. Acoustical applications. Two lectures and one three-hour laboratory each week. 3 s.h. (w)  
PROFESSOR NIELSEN

213-214. **Contemporary Physics**.—A course which covers the fundamental concepts and the experimental basis of modern physics. Three lectures each week. 6 s.h. (w)  
ASSISTANT PROFESSOR GREULING

217-218. **Advanced Physics Laboratory**.—Measurements involving the fields of mechanics, electricity, magnetism, heat, sound, optics, and modern physics. 2-6 s.h. (w)  
THE STAFF

219. **Introduction to Electronics**.—Fundamentals of electron tubes. Motion of charged particles, space charge, gaseous conduction. Electron tube circuits. Three hours of lecture and one three-hour laboratory per week. 4 s.h. (w)  
PROFESSOR GORDY OR ASSOCIATE PROFESSOR SMITH

**220. Electron Circuit Analysis.**—Linear and non-linear circuit analysis, electric oscillations, operation of filters, Fourier analysis of wave phenomena, coupling in electrical circuits. **3 s.h.**

PROFESSOR GORDY OR ASSOCIATE PROFESSOR SMITH

**221-222. Introduction to Theoretical Physics.**—Lectures and problems on the fundamental principles and mathematical theory of physics, constituting a thorough foundation for subsequent specialization and more intensive study. **8 s.h. (w)**

**243. Elementary Nuclear Physics.**—Radioactivity, nuclear transmutations, properties of nuclear radiations and sources of nuclear particles. **3 s.h. (w)**

PROFESSOR NEWSON

#### FOR GRADUATES

**303. Thermodynamics.**—Fundamental laws of thermodynamics and their applications to physics and chemistry. **3 s.h.**

PROFESSOR SPONER

**305. Kinetic Theory of Matter.**—Gas laws, Maxwell's distribution law; mean free path; viscosity; heat conductivity; diffusion; phenomena in gases at low pressure; specific heat; entropy; probability and reaction kinetics. **3 s.h.**

PROFESSOR NIELSEN

**307. Advanced Mechanics I.**—General dynamics of particles, systems of particles, and rigid bodies. The methods of Lagrange and Hamilton; general principles of mechanics. **3 s.h.**

PROFESSOR NORDHEIM

**308. Advanced Mechanics II.**—Mechanics of deformable bodies. Statics and dynamics of elastic and fluid media. **3 s.h. (w)**

PROFESSOR NORDHEIM

**315-316. Principles of Quantum Theory.**—Original and fundamental concepts of quantum theory; wave and matrix mechanics; theory of measurements; exclusion principle and electronic spin. **6 s.h.**

PROFESSOR NORDHEIM

**318. Theory of Electricity and Magnetism.**—Electrostatics and potential theory. Dielectric and magnetic media. The magnetic field of currents and the law of induction. AC currents and networks. **3 s.h.**

ASSISTANT PROFESSOR GREULING

**319. Electrodynamics.**—Maxwell's system of electrodynamics. Production and propagation of electromagnetic waves. Wave optics. Theory of interference and diffraction. Crystal optics. **3 s.h.**

ASSISTANT PROFESSOR GREULING

**320. Theory of Electrons.**—Lorentz' equations of electrodynamics. Classical theories of dispersion, magnetism, and conductivity. Theory of relativity. **3 s.h.**

ASSISTANT PROFESSOR GREULING

**323. Theory of Atomic Spectra.**—Excitation of spectra, computation of wave lengths from photographs of spectra, study of the structure of atomic spectra with applications. **3 s.h.**

PROFESSOR SPONER

**324. Theory of Molecular Spectra.**—A study of the structure of molecular spectra with applications. **3 s.h.**

PROFESSOR SPONER

**331. Microwave Theory and Application.**—Microwave generators, cavity resonators, transmission lines, radiation propagation and detection. **4 s.h.**

PROFESSOR GORDY

**332. Microwave Spectroscopy.**—Application of microwaves in the determination of molecular, atomic, and nuclear properties. Stark and Zeeman effects in microwave spectroscopy. Magnetic resonance absorption. **3 s.h. (w)**

PROFESSOR GORDY

**340. Structure of Matter.**—Selected topics dealing with the constitution of matter such as crystal structure and x-rays, the solid state and problems of  
 PROFESSOR SPONER

**341. Advanced Topics in Quantum Theory.**—Quantum theory of radiation and collisions with special reference to nuclear physics. Prerequisite: Physics 315-316. 3 s.h.  
 PROFESSOR NORDHEIM

**344. Advanced Nuclear Physics.**—The deuteron, nuclear forces, scattering of elementary particles, beta-radiation. Other aspects of nuclear physics susceptible to theoretical interpretation. 3 s.h. (w)  
 PROFESSOR NEWSON

**351-352. Seminar.**—A series of weekly discussions on topics related to the research projects under investigation in the Department. 2 s.h. STAFF

**353-354. Thesis Seminar.**—Students who are properly qualified may carry on research work under the direction of members of the Staff. 6 s.h. STAFF

### POLITICAL SCIENCE

PROFESSOR RANKIN, CHAIRMAN—104 LIBRARY; PROFESSOR COLE, DIRECTOR OF GRADUATE STUDIES\*—315 LIBRARY; PROFESSORS WILSON AND VON BECKERATH; ASSOCIATE PROFESSORS HALLOWELL AND VAN WAGENEN;  
 ASSISTANT PROFESSOR HANSON

#### FOR SENIORS AND GRADUATES

**207. American Constitutional Law and Theory.**—A study of leading principles of American government, as developed through judicial interpretation of the Constitution. 3 s.h.  
 PROFESSORS WILSON AND RANKIN

**209. State and Local Government in the United States.**—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. 3 s.h.  
 PROFESSOR RANKIN

**211. Political Institutions of the Far East.**—A study of the governmental system of Japan, Korea, and China from the Chou Dynasty to the present. 3 s.h.

[Not offered in 1949-50]

**212. International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h.  
 [Not offered in 1949-50]

**221. International Public Organization.**—A study of the structure and functioning of the United Nations system and of selected organizations outside that system. 3 s.h. (w)

PROFESSOR WILSON AND ASSOCIATE PROFESSOR VAN WAGENEN

**223. Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h.  
 PROFESSOR WILSON

**224. Modern Political Theory.**—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h.

PROFESSOR WILSON AND ASSOCIATE PROFESSOR HALLOWELL

**225. Comparative Government.**—A comparative study of modern political institutions with particular attention to European constitutional government and politics. 3 s.h.  
 PROFESSOR COLE

**226. Comparative Government.**—A comparative study of modern political institutions with particular attention to European authoritarian and dictatorial government and politics. 3 s.h.  
 PROFESSOR COLE

\* On June 1, 1949, Professor Wilson will become Director of Graduate Studies.



**227-228. International Law.**—Elements of international law, particularly as interpreted and applied by the United States. 6 s.h. PROFESSOR WILSON

**229. Recent and Contemporary Political Theory.**—A study of the more significant contributions to political theory from 1850 to the present. 3 s.h. ASSOCIATE PROFESSOR HALLOWELL

**230. American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. 3 s.h. PROFESSOR RANKIN

**231. American Political Theory.**—An analysis of the main currents in American political thought from colonial beginnings to the present day with emphasis upon the development of liberalism in America. 3 s.h. ASSOCIATE PROFESSOR HALLOWELL

**235. The British Commonwealth.**—An analysis of the political relationships between the members of the British Commonwealth and a comparative study of the governments of the British Dominions, with particular reference to Canada. 3 s.h. PROFESSOR COLE

**241-242. The Administrative Process.**—The function and theory of organization, delegated legislation, administrative adjudication, the control of administration, and special problems in economic balancing and proprietary activities. 6 s.h.

**244. Administrative Law.**—The law of the administrative process, including the nature of regulatory authority, the status and liability of public officers, administrative tribunals and judicial review of administrative action. 3 s.h.

**252. Spanish-American Constitutionalism.**—A comparative study of the nature, sources, and use of political authority in the constitutional law of Argentina, Chile, Colombia, and Uruguay. 3 s.h.  
[Not offered in 1949-50]

**271. Sociopolitics and Capitalism.**—Labor and labor policies in Western Europe and the United States in the nineteenth and twentieth centuries; "social security" during and after the war. 3 s.h. PROFESSOR VON BECKERATH

**291. Municipal Government.**—A study of problems relating to the structural system and activities of municipalities in the United States. 3 s.h. PROFESSOR RANKIN AND ASSISTANT PROFESSOR HANSON

**292. Municipal Administration.**—A study of principles and methods of municipal administration in the United States. 3 s.h. PROFESSOR RANKIN AND ASSISTANT PROFESSOR HANSON

#### FOR GRADUATES

**310. Seminar in State Government.**—Open to students who have completed course 209 or its equivalent. 3 s.h. PROFESSOR RANKIN

**311. Seminar in Far Eastern Politics.**—Open to students who have completed course 211 or its equivalent. 3 s.h.  
[Not offered in 1949-50]

**321. Seminar in Political Theory.**—Open to students who have completed 6 s.h. in Political Science 223, 224, 229, 231 or their equivalents. 3 s.h. ASSOCIATE PROFESSOR HALLOWELL

**325. Seminar in Comparative Government.**—Open to students who have completed course 225-226 or its equivalent. 3 s.h. PROFESSOR COLE

**328. Seminar in International Law.**—Open to students who have completed course 227-228 or its equivalent. 3 s.h. PROFESSOR WILSON

**341. Seminar in Public Administration.**—Open to students who have completed course 241-242 or its equivalent. 3 s.h.

#### RELATED COURSES IN OTHER DEPARTMENTS

**Economics 215. Economic Systems.**—3 s.h. PROFESSOR HOOVER

**Economics 216. Economic Functions of the State.**—3 s.h.  
PROFESSOR HOOVER

**Economics 233. State and Local Finance.**—3 s.h. PROFESSOR RATCHFORD

**Economics 234. Federal Finance.**—3 s.h. PROFESSOR RATCHFORD

**Economics 237-238. Statistical Methods.**—6 s.h.  
ASSOCIATE PROFESSOR HANNA

**Economics 265. International Trade and Finance.**—3 s.h.  
ASSOCIATE PROFESSOR ALLEN

**History 215-216. Foreign Policy and Diplomacy of the United States.**—6 s.h. PROFESSOR CLYDE

**History 217-218. Europe since 1870.**—6 s.h. PROFESSOR CARROLL

**History 234. Political and Social Problems in the Hispanic American Republics.**—3 s.h. PROFESSOR LANNING

[Not offered in 1949-50]

**History 261-262. Russia in the Twentieth Century.**—6 s.h.  
ASSOCIATE PROFESSOR CURTISS

**Philosophy 208. Political Philosophy.**—3 s.h. PROFESSOR NEGLEY

**Sociology 382. History of Sociological Theory.**—3 s.h. PROFESSOR JENSEN

#### PSYCHOLOGY

PROFESSOR ADAMS, CHAIRMAN—201 BIVINS HALL; PROFESSOR ZENER, DIRECTOR OF GRADUATE STUDIES—217A SCIENCE BUILDING; PROFESSORS DAI, KUDER, LUNDHOLM, AND RHINE; ASSOCIATE PROFESSORS BANHAM AND KOCH; ASSISTANT PROFESSOR REICHENBERG-HACKETT

The aim of the Department is to provide opportunity for advanced study and research in a variety of fields of general experimental and clinical psychology.

Regardless of the field of eventual specialization, a thorough grounding in the facts, methods, and theories of general psychology is required. The graduate program is planned so as to achieve this common background primarily during the first year, with specialization in course work in the second. Normally the preliminary examination, language requirements, and a special examination in statistics would be passed and the doctoral dissertation formulated by the end of the second year. Emphasis is laid upon the completion, under direction of a member of the Staff, of a dissertation demonstrating competence and independence in the successful investigation of an original and significant problem.

Students specializing in clinical psychology will normally spend the third year in an appropriate internship and a fourth in residence at the University to complete the dissertation.

No limitation is laid down as to the departments in which it is possible to minor. The fields most usually relevant to graduate study in psychology, however, are sociology and anthropology, endocrinology, physiology, education, and philosophy.

In addition to the general requirements for admission to the Graduate School, a candidate must have satisfactorily completed fifteen semester hours of course credit in psychology. A deficiency in undergraduate preparation

may, in certain cases, be removed by taking courses without graduate credit concurrently with a correspondingly reduced schedule of graduate courses as arranged with the Director of Graduate Studies.

FOR SENIORS AND GRADUATES

**202. Psychology of Aesthetics.—3 s.h.** PROFESSOR LUNDHOLM

**203. Dynamic Psychology: Conation and Our Conscious Life.**—A systematic presentation of the psychology of adult human achievements, adaptive as well as creative, with emphasis upon the significance for these endeavors of the acts of experiencing. **3 s.h.** PROFESSOR LUNDHOLM

**204. Motivation and Learning.**—Social and biological conditions of the operation, modification, and organization of motivational systems. **3 s.h.**

PROFESSOR ZENER AND ASSOCIATE PROFESSOR KOCH

**206. Social Psychology.**—Kinds of membership character; psychology of social movements; propaganda; revolution; nationalism; war. **3 s.h.**

PROFESSOR ADAMS

**207. Psychology of Memory, Thinking, Perceiving.**—A study of thinking, remembering, and perceiving with reference to the basic processes involved and their determining conditions, with emphasis upon organization, meaning, and motivation. **3 s.h.**

PROFESSOR ZENER

**209. Experimental Methods in Human Psychology.**—A study of methods for the control and recording of essential variables in human psychological situations, with consideration of the relation of experimental techniques to problem formulation and psychological theory. Laboratory and lectures. **4 s.h.**

PROFESSOR ZENER

**212. Physiological Psychology.**—An advanced study of the interrelationships between psychological and physiological processes. Prerequisites: courses in Neuro-anatomy and in Physiology (M204 and M261, or Zoology 324, or their equivalents). **3 s.h.**

PROFESSOR ZENER

**215. Developmental Psychology.**—The environmental forces conditioning the development of personality structure and the mechanisms contributing to psychological growth; critical periods in character formation from infancy to senescence. **3 s.h.**

PROFESSOR ADAMS

**219. Psychometrics.**—Lectures, demonstration and practice in the use of standard scales of intelligence for children and adults; language, performance and personality tests; rating scales; individual and group tests; interpretation and evaluation of results; methods of reporting test data. **3 s.h.**

ASSOCIATE PROFESSOR BANHAM

**223. Abnormal Psychology.**—A systematic presentation of the psychology of functional mental disorders with emphasis on its bearing upon general psychological theory. **3 s.h.**

PROFESSOR LUNDHOLM

[Offered in spring semester only]

**226. Psychology: Historical and Theoretical.—3 s.h.** PROFESSOR ZENER

**236. Theoretical Psychology.**—This course is devoted to the analysis of techniques of theory construction in psychology. The discussion of these methodological issues is co-ordinated with the analysis of concrete formulations in contemporary psychological theory. **3 s.h.**

ASSOCIATE PROFESSOR KOCH

**241. Introduction to the Rorschach Test.**—Lectures, demonstrations and practice in the administration of the Rorschach test, to develop proficiency in use of the scoring system; practice in collecting and reporting Rorschach material. **3 s.h.**

ASSISTANT PROFESSOR REICHENBERG-HACKETT

**265. Fundamental Statistical Procedures in Psychology.**—A course in the application of the more common statistical principles and techniques used in psychological research. Measures of central tendency, variability, and correlation, and the elements of sampling theory are studied with illustrative data from various problem areas in psychology. **3 s.h.** PROFESSOR KUDER

**266. Advanced Statistics of Psychological Investigation.**—A study of various more advanced statistical principles and procedures employed in psychological research. The course includes the topics of multiple and partial correlation, analysis of variance as employed in controlled experimentation, measures of correlation other than product-moment correlation, reliability and validity of measures, and fundamental concepts of factor analysis. Prerequisite: Psychology 265 or its equivalent. **3 s.h.** PROFESSOR KUDER

## FOR GRADUATES

**302. Seminar.**—3 s.h. PROFESSOR LUNDHOLM  
[Not offered in 1949-50]

**303-304. Research.**—2 or 3 s.h.  
PROFESSORS ADAMS, DAI, KUDER, LUNDHOLM, RHINE, AND  
ZENER; ASSOCIATE PROFESSORS BANHAM AND KOCH

**306. Seminar in Child Psychology (Clinical).**—2 or 3 s.h.  
PROFESSOR ADAMS

**307. Seminar in Psychology of Personality.**—3 s.h. PROFESSOR RHINE  
[Not offered in 1949-50]

**309. Theory of Learning.**—3 s.h. PROFESSOR ADAMS  
[Not offered in 1949-50]

**310. Seminar: Selected Problems in the Dynamics of Behavior.**—3 s.h.  
PROFESSOR ZENER

**311. Seminar in Parapsychology**—3 s.h. (E) PROFESSOR RHINE

**331. Interviewing Methods of Case Study.**—Lectures, conferences and practice in interviewing, the technique of anamnesis; types of interview for different purposes; directive and non-directive methods; summarizing and reporting case histories; use of interviewing techniques in the diagnosis and treatment of personality problems. **3 s.h.** ASSOCIATE PROFESSOR BANHAM

**332. Projective Techniques.**—Lectures, demonstration and practice in the use of projective techniques for the diagnosis and treatment of personal maladjustment in children and adults; basic theories underlying their use; interpretation of results; critical examination of the techniques as diagnostic or therapeutic devices. Techniques for discussion to be selected from the following: word pictures, doll play, free play, group play, graphic and plastic art, dramatic play, psychodrama, and Thematic Apperception Test. **3 s.h.**

ASSOCIATE PROFESSOR BANHAM

**335. Clinical Psychology Practicum.**—Practice in clinical psychology designed to follow basic courses in psychological tests and measurements of objective and projective types, and to precede the advanced courses on interpretation. Students will gain supervised practice in administering and scoring a wide variety of clinical tests, applying them in the beginning to patients with moderate behavior problems, and going on to patients with more serious problems. In addition to individual supervised work in a clinic, a weekly two-hour seminar is held. Prerequisite: Psychology 219 or its equivalent. **3 to 6 s.h.**

PROFESSOR ADAMS

**336. Psychological Diagnosis.**—Within a clinical situation and under supervision, various objective tests of mental status and personality function will be studied in a variety of patients with pathological behavior problems; the



structure of the psychometric tools will be examined; the implications of different test results; analysis of such phenomena as scatter, range and intra-test relationships, critical review of techniques and of all work performed, including case reports. 3 to 6 s.h. PROFESSOR ADAMS

**341. Society, Culture and Behavior Disorders.**—A critical survey of current theories of the structure and genesis of psychoneurosis, with particular stress on psychoneurotic disturbances as problems of the self in relation to society and culture. 3 s.h. PROFESSOR DAI

**342. Principles of Psychotherapy.**—A critical study of the current methods of treating behavior disorders, such as brief psychoanalytic therapy, non-directive methods and group procedures. Stress is laid on integration of the best workable procedures into a set of psychotherapeutic principles in a socio-psychological frame of reference as discussed in Psychology 341 which is a prerequisite. Case material will be used for purposes of illustration. 3 s.h. PROFESSOR DAI

**371. Pre-school Behavior Problems.**—The diagnosis and treatment of behavior problems, to include: types and selection of problems for study, analysis and statement of the problem, systematic inquiry into causes, planning and allocating treatment programs, follow-up inquiry, progressive adaptation of treatment, preventive measures. Prerequisites: at least one course in child development, in mental measurement, and in abnormal psychology. 3 s.h.

[Offered in spring semester only] ASSOCIATE PROFESSOR BANHAM

**RELATED COURSES IN OTHER DEPARTMENTS**

**Education 208A. Mental Tests and Applications.**—3 s.h.

ASSOCIATE PROFESSOR EASLEY

**Education 208B. Practicum.**—2 s.h.

ASSOCIATE PROFESSOR EASLEY

**Education 209. Statistical Methods Applied to Education.**—3 s.h.

ASSOCIATE PROFESSOR EASLEY

**Education 218. Educational Implications of Genetic Psychology.**—3 s.h.

PROFESSOR BROWNELL

**Education 227. The Psychology of Learning: Problems.**—3 s.h.

ASSOCIATE PROFESSOR EASLEY

**Education 228. The Psychology of Learning: Theoretical and Experimental.**—3 s.h.

ASSOCIATE PROFESSOR EASLEY

**Education 258. Educational Measurements.**—First semester. 3 s.h.

**Education 317. The Psychological Principles of Education.**—3 s.h.

PROFESSOR BROWNELL

**Philosophy 208. Political Philosophy.**—3 s.h.

PROFESSOR NEGLEY

**Philosophy 223. Contemporary Philosophy.**—3 s.h.

PROFESSOR PATTERSON

**Philosophy 231-232. Philosophy of Science.**—6 s.h.

ASSOCIATE PROFESSOR LEONARD

**Philosophy 241. Logic.**—3 s.h.

ASSOCIATE PROFESSOR LEONARD

**Philosophy 242. Scientific Methodology.**—3 s.h.

ASSOCIATE PROFESSOR LEONARD

**Sociology 211. Peoples of the World.**—3 s.h.

ASSISTANT PROFESSOR LABARRE

**Sociology 212. Primitive Religion.**—3 s.h.

ASSISTANT PROFESSOR LABARRE

**Sociology 238. Race and Culture.**—3 s.h.

PROFESSOR THOMPSON

- Sociology 243. Social Attitudes and Collective Behavior.—3 s.h.**  
ASSOCIATE PROFESSOR SCHETTLER
- Sociology 246. Public Opinion and Propaganda.—3 s.h.**  
ASSOCIATE PROFESSOR SCHETTLER
- Sociology 249. Child Welfare.—3 s.h.** PROFESSOR JENSEN
- Sociology 271. Social Pathology.—3 s.h.** PROFESSOR JENSEN
- Sociology 276. Criminology.—3 s.h.** PROFESSOR JENSEN
- Sociology 330. Seminar in Anthropology.—3 s.h.**  
ASSISTANT PROFESSOR LABARRE
- Sociology 380. Seminar in Applied Sociology.—1 to 3 s.h.**  
PROFESSOR JENSEN
- Zoology 229. Endocrinology.—4 s.h.**
- Zoology 324. Advanced Physiology.—4 s.h.** ASSOCIATE PROFESSOR WILBUR
- Zoology 341. Historical and Philosophical Zoology.—2 s.h.**  
PROFESSOR HARGITT
- Zoology 351-352. Zoological Journal Club.—2 s.h.** STAFF
- Zoology 355-356. Seminar.** STAFF
- Medicine 261-262. Human Physiology (Neurophysiology).—8 s.h.**
- Medicine 204. Neuroanatomical Basis of Behavior.—3 s.h.**  
DR. HETHERINGTON

## RELIGION

PROFESSOR SMITH, DIRECTOR OF GRADUATE STUDIES—302 DIVINITY SCHOOL;  
PROFESSORS BOSLEY, CLARK, CUSHMAN, PETRY, SPENCE, AND STINE-  
SPRING; ASSOCIATE PROFESSOR BEACH; AND ASSISTANT  
PROFESSOR YOUNG

Graduate study in religion leading to the degrees of Master of Arts and Doctor of Philosophy may be pursued in three fields: (1) Biblical Studies; (2) Studies in Church History; and (3) Studies in Christian Thought. A student majoring in one of these fields will be expected to take such courses in one or both of the other fields as may be necessary to give an adequate understanding of his own field of specialization.

Students pursuing work in the field of religion will be expected to take such other courses in cognate fields as will aid in the understanding of their field of specialization. Special attention is called to the Division of Ancient Languages and Literature for those working in Field I; to the Department of History for those working in Field II; and to the Departments of Philosophy, Political Science, and Sociology for those working in Field III.

## FIELD I. BIBLICAL STUDIES

**201-202. First Hebrew.**—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. **6 s.h.**

PROFESSOR STINESPRING

**205-206. Arabic.**—Introduction to the classical language and literature with some attention to the modern idiom. Hours to be arranged. **6 s.h.**  
[Not offered in 1949-50]

PROFESSOR STINESPRING

**207-208. Second Hebrew.**—Samuel or Kings the first semester and Isaiah the second. **6 s.h.**

PROFESSOR STINESPRING

**301. The Religious Thought of Post-Exilic Judaism.**—A critical study of the religious and ethical ideas of the more important later writings of the Old Testament and the Apocrypha. Prerequisite: Old Testament 203-204. 3 s.h.

ASSISTANT PROFESSOR YOUNG

**304. Aramaic.**—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. Hours to be arranged. 3 s.h.

PROFESSOR STINESPRING

[Not offered in 1949-50]

**305. Third Hebrew.**—A study of late Hebrew prose, with readings from Chronicles, Ecclesiastes, and the Mishnah. Hours to be arranged. 3 s.h.

PROFESSOR STINESPRING

**309. History of the Ancient Near East.**—A specialized study of the civilizations of Egypt, Palestine, Syria, and Mesopotamia in light of Biblical archaeology. 3 s.h.

PROFESSOR STINESPRING

[Not offered in 1949-50]

**310. Old Testament Prophecy.**—The prophetic movement in Israel with special emphasis on the prophets of the eighth century B.C. 3 s.h.

PROFESSOR STINESPRING

**217. The New Testament in Greek.**—Extensive reading of the Greek text of the New Testament, with special emphasis upon its interpretation. 3 s.h.

PROFESSOR CLARK

**218. Galatians and I Corinthians.**—A detailed study of two of Paul's major epistles, based on the Greek text. 3 s.h.

PROFESSOR CLARK

**220. I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament, based on the Greek text. 3 s.h.

[Not offered in 1949-50]

PROFESSOR CLARK

**311. The Life and Teachings of Jesus.**—Prerequisite: New Testament 213-214. 3 s.h.

PROFESSOR CLARK

**312. New Testament Theology.**—An examination of the problems integral to the systematic interpretation of New Testament theology, with a critical evaluation of representative investigations in this field. 3 s.h.

ASSISTANT PROFESSOR YOUNG

**313. The Apostolic Fathers.**—A study of the Christian development from Clement of Rome to Polycarp, with readings of the Greek text. 3 s.h.

PROFESSOR CLARK

**314. Patristic Thought.**—A study of the development of early Christian doctrine to the period of Augustine. Special attention will be given to the principal theological controversies. Prerequisite: New Testament 213-214. 3 s.h.

ASSISTANT PROFESSOR YOUNG

**316. Hellenistic Religions at the Beginning of the Christian Era.**—A study of the Gentile religions in the Roman Empire, at the beginning of the Christian era. 3 s.h.

PROFESSOR CLARK

[Not offered in 1949-50]

**317. The Synoptic Gospels.**—A detailed study of their characteristics and contents, based upon the Greek text, with attention to their respective sources and to the development of synoptic criticism. Prerequisite: a basic "Introduction" to the New Testament. 3 s.h.

PROFESSOR CLARK

**318. Text of New Testament.**—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. 3 s.h.

PROFESSOR CLARK

[Not offered in 1949-50]

## RELATED COURSES IN OTHER DEPARTMENTS

**Greek 257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—3 s.h.** PROFESSOR ROGERS

**Latin 258. Social and Cultural History of the Graeco-Roman World.—3 s.h.** PROFESSOR ROGERS

**Aesthetics, Art, and Music 215. Religious Art of the Ancient Near East.—3 s.h.** ASSISTANT PROFESSOR MARKMAN

**Aesthetics, Arts, and Music 216. Religious Art of the Classical World.—3 s.h.** ASSISTANT PROFESSOR MARKMAN

## FIELD II. STUDIES IN CHURCH HISTORY

**328. The Church in Europe since 1800.—**Emphasis is placed on the relation of the Church to the social, economic, and political life of Modern Europe. **3 s.h.** PROFESSOR PETRY

[Not offered in 1949-50]

**331. The Social Message of the Early and Medieval Church.—**A study of the social teachings and contributions of the Christian Church prior to the Protestant Reformation. **3 s.h.** PROFESSOR PETRY

**332. The Medieval Church.—**Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. **3 s.h.** PROFESSOR PETRY

**334. Church Reformers and Christian Unity.—**The work of such reformers as Marsilius of Padua, William of Ockham, John Gerson, Pierre d'Ailly, and Nicholas of Cusa in relation to ecclesiastical schism and the search for Christian unity through representative councils. **3 s.h.** PROFESSOR PETRY

**336. History of Christian Renunciation in the Middle Ages.—**A study of the renunciatory ideal and spiritual practices with special reference to Benedictines, Franciscans, Lowland Mystics, and leading seculars. **3 s.h.**

[Not offered in 1949-50]

PROFESSOR PETRY

**365. History of Religious Education in Modern Times.—**A critical study of the historical movements in religious education since the Reformation with special consideration of the American development. **3 s.h.** PROFESSOR SPENCE

## RELATED COURSES IN OTHER DEPARTMENTS

**History 221-222. The Age of the Renaissance.—6 s.h.**

ASSOCIATE PROFESSOR NELSON

**History 225-226. The Age of the Reformation.—6 s.h.**

[Not offered in 1949-50]

ASSOCIATE PROFESSOR NELSON

## FIELD III. STUDIES IN CHRISTIAN THOUGHT

**224. Conceptions of Man in Western Thought.—**An analysis and interpretation of important types of philosophical and theological theory concerning man with a view to critical evaluation and construction. Prerequisite: 3 s.h. in Christian Doctrine or 6 s.h. in Philosophy. **3 s.h.**

[Not offered in 1949-50]

PROFESSOR CUSHMAN

**321. Platonism and Christianity.—**An analysis of Plato's religious philosophy and a survey of its continuing influence in Hellenistic and Christian thought. Prerequisite: 6 s.h. in philosophy or its equivalent. **3 s.h.**

PROFESSOR CUSHMAN

**322. Theology and Philosophy in the Nineteenth Century.—**A study of Protestant thought from Schleiermacher to Troeltsch together with representative theologians of Britain, with special attention to the reciprocal relations between theology and metaphysics. **3 s.h.**

[Not offered in 1949-50]

PROFESSOR CUSHMAN



**325. Philosophical Theology I.**—Analysis and critique of dominant types of contemporary world-views for the formulation of the problem of philosophical theology. Main problems in the history of philosophical theology. 3 s.h.

PROFESSOR CUSHMAN

**326. Philosophical Theology II.**—Historical and constructive approach to the problem of faith and reason, God and evil. 3 s.h.

PROFESSOR CUSHMAN

**328. Seminar in 20th Century Continental and British Theology.**—Critical examination of the thought of Barth, Brunner, Berdyaev, Maritan, F. R. Tennant, and William Temple. 3 s.h.

PROFESSOR CUSHMAN

**329. Seminar in Historical Theology.**—Selected problems in the history of Christian thought, with special reference to the relation between theology and philosophy. 2 s.h.

**368. Theories of Religious Education.**—A critical investigation of current theories of Religious Education. 3 s.h.

PROFESSOR SPENCE

**382. Religious Knowledge.**—A critical investigation of the source, nature, and validity of religious knowledge, involving reference to the relation of revelation to reason and scientific methodology in knowledge. Prerequisite: C. D. 229 or equivalent. 3 s.h.

PROFESSOR BOSLEY

**391-392. Historical Types of Christian Ethics.**—A critical study of representative documents of Christian ethical theory. 6 s.h.

ASSOCIATE PROFESSOR BEACH

**394. Christianity and the State.**—The relation of the Christian theory of the State to political problems, with special consideration of the religious assumptions underlying democratic theory and practice. 3 s.h.

ASSOCIATE PROFESSOR BEACH

**395. Religious Thought in Colonial America.**—Consideration of the principal types of Protestant thought in colonial culture. 3 s.h.

PROFESSOR SMITH

**396. American Religious Thought in the Nineteenth Century.**—Comparative exposition of Orthodoxy and Liberalism. 3 s.h.

PROFESSOR SMITH

**397. Current American Religious Thought.**—Critical appraisal of conflict-modes in American theological thought. 3 s.h.

PROFESSOR SMITH

**398. Modern American Christology.**—An analysis of the historical development of modern American conceptions of the person and work of Christ. 3 s.h.

PROFESSOR SMITH

**495. Seminar: Jonathan Edwards and John Wesley.**—A comparative study of the major theological works of Edwards and Wesley. 2 s.h.

PROFESSOR SMITH

**496. Seminar: William James and John Dewey.**—A critical study of the philosophical and religious thought of James and Dewey. 2 s.h.

PROFESSOR SMITH

#### RELATED COURSES IN OTHER DEPARTMENTS

**Political Science 229. Recent and Contemporary Political Theory.**—3 s.h.

ASSOCIATE PROFESSOR HALLOWELL

**Political Science 231. American Political Theory.**—3 s.h.

ASSOCIATE PROFESSOR HALLOWELL

#### OTHER COURSES

Certain other courses listed in this bulletin and the *Bulletin of the Divinity School* may be taken for graduate credit provided that at the time of registration they are approved by the Director of Graduate Studies in Religion and by the Dean of the Graduate School.

## ROMANCE LANGUAGES

PROFESSOR JORDAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—214 CARR;  
 PROFESSORS COWPER AND WALTON; ASSOCIATE PROFESSORS  
 CASTELLANO AND DAVIS

To be eligible for graduate study in this Department, the student should normally have credit for four years of college work in the chosen language, or eighteen hours beyond the conventional two units offered at entrance to college. In addition to this minimum requirement, one semester of composition and grammar review is highly desirable.

It is recommended that candidates for the Master's degree take a second Romance Language for the minor subject.

A candidate for the Ph.D. degree should be equipped to follow graduate courses in a second Romance Language. Some training in Romance Linguistics will be required for this degree, the amount to be determined by the Department upon consideration of the student's preparation in the field.

Graduate students will be required to maintain oral practice in their major language through non-credit exercises that will be provided.

## FRENCH

## FOR SENIORS AND GRADUATES

**213. French Classicism.**—Its initial phase. Readings from Malherbe, Corneille, Molière, Racine, Pascal, Boileau, La Fontaine, La Rochefoucauld, Madame de Sévigné, La Bruyère, and others. 3 s.h. PROFESSOR WALTON

**214. French Classicism.**—Its final phase. Readings from Fontenelle, Saint-Simon, Abbé Prévost, Marivaux, Lesage, Montesquieu, Voltaire, and others. Main emphasis on Voltaire. 3 s.h. PROFESSOR WALTON

**215-216. The Modern French Novel.**—A survey of the novel form from the seventeenth to the twentieth century, with particular attention to the analysis of fundamental literary trends: classicism, rationalism, romanticism, and realism. 6 s.h. PROFESSOR JORDAN

**219. Old French.**—An introduction to the Old French language and literature. The *Chanson de Roland* and *Aucassin et Nicolette*. 3 s.h.

**220. Old French.**—Types of Old French literature. The *lais* of Marie de France, Chrétien de Troyes and the Arthurian Romance, the *roman d'aventure*, the *Roman de la rose* and the *Roman de Renard*. Readings and lectures. 3 s.h. PROFESSOR COWPER

**227. French Poetry since Théophile Gautier.**—Readings from the principal figures of the Parnassian and Symbolist movements, including Baudelaire, Leconte de Lisle, Heredia, Verlaine, Rimbaud, Mallarmé, and Régner. 3 s.h. PROFESSOR WALTON

**232. Rousseau and the Beginnings of Romanticism.**—A study of the sources of the French Romantic Movement in the works of J.-J. Rousseau and his successors, Bernardin de Saint-Pierre, Senancour, Chateaubriand and others. 3 s.h. PROFESSOR COWPER

**238. Anatole France.**—Analysis of the principal phases of his work and its relation to the French tradition. Reading of his poetry, *Le Crime de Sylvestre Bonnard*, *Thais*, *Le Jardin d'Épicure*, *Les Dieux ont soif*, *Le Lys Rouge*, *L'Île des Pingouins*, parts of *La Vie Littéraire*. Optional individual projects. 3 s.h. PROFESSOR WALTON

## FOR GRADUATES

**317. History of the French Language.**—A study of the development of the French language from Vulgar Latin, through Old and Middle French to Mod-

ern French, with an introduction to the phonology and morphology of the language. 3 s.h. PROFESSOR COWPER

323-324. **Realism and Naturalism.**—Literary doctrines and practices in the generation of 1850-90, with particular reference to the background of scientific thinking. 6 s.h. PROFESSOR JORDAN

325-326. **French Literature in the Sixteenth Century.**—Main attention is given to Rabelais, Montaigne, Marot, Ronsard, Du Bellay. Principal movements treated are: Humanism, Hellenism, Platonism, Petrarchism, the Pléiade. 6 s.h. PROFESSOR WALTON

331. **Diderot and the Encyclopédie.**—A study of the development of modern ideas and institutions in the group who surrounded Diderot in editing the Encyclopédie. 3 s.h. PROFESSOR COWPER

333-334. **Contemporary French Literature.**—The twentieth century is examined mainly with reference to the originality of its contribution in the domain of ideas and literary forms. Only the leading figures are read extensively; Rolland, Gide, Proust, Duhamel, Valéry. 6 s.h. PROFESSOR JORDAN

350. **Nineteenth-Century French Criticism.**—A survey of critical doctrines and practices from Sainte-Beuve to the end of the century, including Brunetière, Faguet, Lemaître, France, Doumic and others. 3 s.h. PROFESSOR JORDAN

Of the courses listed above, the following will be offered during the first semester of the year 1949-50: three courses from the group 213, 215, 219, 227, 323, 325, 333. During the second semester: three courses from the group 214, 216, 220, 322, 238, 324, 326, 334, 350.

## SPANISH

### FOR SENIORS AND GRADUATES

253. **Spanish Phonetics.**—Systematic analysis of the sounds of the Spanish language with corrective exercises and phonetic transcriptions; sound changes; basic principles of intonation; brief survey of regional variations; phonograph demonstrations; inscription of student's voice by electric recorder. 3 s.h. (E)

257-258. **Old Spanish Language and Literature.**—First semester: The historical development of the language along with illustrative readings. Second semester: The literature of the Middle Ages and Early Renaissance. 6 s.h. ASSOCIATE PROFESSOR DAVIS

260. **Advanced Spanish Syntax.**—Study of fundamental difficulties, with emphasis on typical pitfalls and peculiarities of Spanish syntax; topical investigations with frequent references to authorities and examples of usage by accepted writers; abundant written exercises; intensive study of idioms. Conducted partly in Spanish. 3 s.h. (E) ASSOCIATE PROFESSOR DAVIS

261-262. **Modern Spanish Novel.**—The evolution of the novel from the *costumbrista* writers through the generation of 1898. 6 s.h. (E)

ASSOCIATE PROFESSOR CASTELLANO

264. **Modern and Contemporary Spanish Theater.**—A brief review of the modern and contemporary Spanish Theater from the period of Romanticism. Lectures, reading and discussion of the most representative works of Benavente, Martínez Sierra, los hermanos Quintero, etc. 3 s.h.

ASSOCIATE PROFESSOR CASTELLANO

265. **Golden Age Literature: Cervantes.**—The *Novelas ejemplares*; analytic study of the entire collection, their structure, style, literary importance and influence abroad, supplemented by selected specimens of Cervantes' short-story technique in the Quijote and other works. 3 s.h. (E)



**266. Golden Age Literature: The Drama of the Golden Age.**—Study of representative plays of the period, with emphasis on the theme of honor. 3 s.h. (E)

### SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR JENSEN, CHAIRMAN—310 LIBRARY BUILDING; PROFESSOR HART, DIRECTOR OF GRADUATE STUDIES—307 LIBRARY BUILDING; PROFESSOR THOMPSON; ASSOCIATE PROFESSORS LABARRE AND SCHETTLER

#### ANTHROPOLOGY

**211. Peoples of the World.**—A comparative study of cultures the world over, including marriage, religion, economics, social and political organization, art and music, with emphasis upon preliterate peoples. Prerequisite: course 111 or 112. 3 s.h. ASSOCIATE PROFESSOR LABARRE

**212. Primitive Religion.**—The ethnography, the social functions and the socio-psychological meanings of religion in primitive societies. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. ASSOCIATE PROFESSOR LABARRE

**213. Culture and Personality.**—The sociology and social psychology of human personality, its origins in the primary group, its nature and varieties, and its integrations into secondary group institutions. 3 s.h. (E)

ASSOCIATE PROFESSOR LABARRE  
(Admission only by consultation with the instructor.)

**214. Society and Personality.**—The influence of culture patterns and social institutions upon character structure, socialization of the individual, and the dynamics of human personality. Comparative anthropological materials will be drawn upon. Prerequisite: course 213. 3 s.h. (E)

ASSOCIATE PROFESSOR LABARRE

**330. Seminar in Anthropology.**—A seminar for advanced students who wish to pursue individual studies in racial or cultural anthropology. Formerly No. 317. 1 to 3 s.h. each semester.

ASSOCIATE PROFESSOR LABARRE

#### ECOLOGY AND POPULATION MOVEMENTS

**233. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood; patterns of settlement; culture; peasant, farmer, and folk societies; and rural institutions. Special attention is given to the plantation and the rural problems of the South. Formerly No. 215. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. Second semester.

PROFESSOR THOMPSON

**235. Urban Sociology.**—The city and civilization. This course studies the inner life and problems of the city and its function in the larger regional and world community which it nucleates. Formerly No. 216. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR THOMPSON

**237. Community and Society.**—This course studies the dual aspect in which social life presents itself: (1) as a population group or groups, and (2) as a constellation of institutions. Formerly No. 218. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR THOMPSON

**238. Race and Culture.**—A study of the nature of race and of the relationships and problems of race. Formerly No. 217. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR THOMPSON

**340. Seminar in Community and Race Relations.**—Special problems in race relations, urban and rural life, and the sociology of the South generally. 3 s.h. each semester.

PROFESSOR THOMPSON



## COLLECTIVE BEHAVIOR

**243. Social Attitudes and Collective Behavior.**—Study of attitudes as products of social interaction; organization of attitudes into personal behavior patterns; expression of social attitudes in social, political and industrial groups; social unrest and the behavior of crowds and mobs; analysis of social movements, strikes, revolutions, and other group organizations. Formerly No. 281. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

ASSOCIATE PROFESSOR SCHETTLER

**246. Public Opinion and Propaganda.**—Nature and development of public opinion; relation to attitudes, biases, stereotypes and controversial issues; role of leaders, pressure groups and minority groups; use of radio, press, motion picture and graphic arts; propaganda and censorship; measurements of public opinion. Formerly No. 282. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

ASSOCIATE PROFESSOR SCHETTLER

**249. Child Welfare.**—A study in heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Formerly No. 212. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR JENSEN

**250. Marriage and the Family.**—An analysis of contemporary marriage and family experience with emphasis on its functions, problems, resources and values. Not open to students who have received credit for Religion 170. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR HART

## SOCIAL ORGANIZATION AND DISORGANIZATION

**271. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society; poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Formerly No. 205. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR JENSEN

**273. Special Problems in Social Pathology.**—Research projects in social and personal disorganization, limited to advanced students with the approval of the instructor. Formerly No. 251. 1 to 3 s.h. each semester.

PROFESSOR JENSEN

**276. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relation of physical and mental defectiveness and untoward influence in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Formerly No. 206. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR JENSEN

**377. Seminar in Medical Sociology.**—The basic principles of the various medical specialties as applied to the problems of marriage and the family. Open only to graduate students in sociology, with the consent of the instructor and of the Director of Graduate Studies. Given by the Staff of the Medical School under the direction of Dr. Bayard Carter, M.D. Formerly No. 351. 2 s.h.

[Not offered in 1949-50]

**378. Seminar in Family Law.**—A seminar approach to the efforts of the social sciences, including law, to deal with the intricate and perplexing problems of the modern family. Readings are assigned in legal and sociological material. Formerly No. 352. 2 s.h.

PROFESSOR BRADWAY

[Not offered in 1949-50]

**380. Seminar in Applied Sociology.**—Special research problems in social pathology, child welfare, criminology, and related topics. Formerly No. 350. 1 to 3 s.h. *each semester.* PROFESSOR JENSEN

#### SOCIAL THEORY

**286. Social Ethics.**—A study of sociological fundamentals underlying ethics, including the controversy between materialistic and idealistic social thinkers, the nature of personalities and of social organization, the nature of social values, types of social interaction and their effects upon general social values, underlying principles and facts of social change, and the bearings of all these upon certain social problems. Formerly No. 236. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. PROFESSOR HART

**288. Contemporary Problems in Cultural Lag.**—An exploration of such sociological problems as social evolution, cultural lag, conflict, accommodation, leadership, and social reform, in relation to the crisis of civilization precipitated by the development of the atomic bomb and by kindred discoveries and inventions. Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. PROFESSOR HART

**381. Principles of Sociology.**—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. Discussions and papers by the class. Formerly No. 319. 3 s.h. PROFESSOR JENSEN

[Not offered in 1949-50]

**382. History of Sociological Theory.**—Lectures on the development of social thought from Aristotle to the present; the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Schäffle, Lillienfeldt, Gumplowicz, Ratzenhofer, and Ward will, among others, be considered. A large amount of assigned reading will be required in this course. The student is advised to correlate this course with related courses in economics, history, political science, and philosophy. Formerly No. 320. 3 s.h. PROFESSOR JENSEN

#### METHODS OF SOCIAL RESEARCH

**291. Statistical Methods in Sociology.**—Deals with the processes of definition, classification, measurement, tabulation, association, correlation, comparison of averages and of percentages, causation, prediction, preparation and interpretation of charts and graphs, as applied to and illustrated by sociological data. Formerly No. 225. Prerequisite: course 91-92, 101, or 111-112. 3 s.h. PROFESSOR HART

**293-294. Special Problems in Social Statistics.**—Applications of statistical techniques to specific research topics limited to advanced students with permission of the instructor. 1 to 3 s.h. *each semester.* PROFESSOR HART

**391. Seminar in Social Statistics.**—Special research problems in social statistics, social ethics, the family or related topics. Formerly No. 360. 1 to 3 s.h. *each semester.* PROFESSOR HART

**396. Methods of Social Research.**—A critical appraisal of the various methods of research and investigation that can be applied to the study of sociological phenomena. Formerly No. 322. 3 s.h. PROFESSOR JENSEN

[Not offered in 1949-50]

**393. Operational Sociology.**—A seminar for advanced students, presenting an operational philosophy of social science as a basis for research in sociology. Examples of operational procedure will be analyzed. Assigned projects will embody applications of the operational method. Prerequisite: one of the fol-

lowing: Sociology 291 or Economics 237-238, or Education 209, or Mathematics 124, or some other acceptable course in statistics. Formerly No. 326. 3 s.h.

PROFESSOR HART

**399. Departmental Seminar.**—Research work upon special problems in sociology and anthropology. Formerly No. 330. 1 s.h. each semester.

PROFESSORS JENSEN, HART, AND THOMPSON; ASSOCIATE  
PROFESSORS SCHEITLER AND LABARRE

#### RELATED COURSES IN OTHER DEPARTMENTS

**Economics 215. Economic Systems.**—3 s.h. PROFESSOR HOOVER

**Economics 216. Economic Functions of the State.**—3 s.h.  
PROFESSOR HOOVER

**Economics 217. Population Problems and Resources.**—3 s.h.  
PROFESSOR SPENGLER

**Philosophy 205. Philosophy of History.**—3 s.h. PROFESSOR WIDGERY

**Political Science 223. Political Thought to the Seventeenth Century.**—  
3 s.h. PROFESSOR WILSON

**Political Science 224. Modern Political Theory.**—3 s.h.  
PROFESSOR WILSON AND ASSOCIATE PROFESSOR HALLOWELL

**Psychology 206. Social Psychology.**—3 s.h.

#### ZOOLOGY

PROFESSOR GRAY, CHAIRMAN—218 BIOLOGY BUILDING; PROFESSOR HARGITT,  
DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING; PROFESSOR  
EMERITUS PEARSE; ASSOCIATE PROFESSORS BOOKHOUT, HUNTER,  
AND WILBUR; ASSISTANT PROFESSORS HORN,  
JOHNSON, AND WHARTON

For admission to candidacy for the Master's degree the applicant should have completed an undergraduate major in zoology or its equivalent (courses in general science and botany cannot be counted as a part of the zoology major). This normally amounts to about twenty-four semester hours of course work, which should be distributed among the various fields of zoology and must include comparative anatomy of vertebrates or vertebrate zoology, physiology, and embryology. The major work must have been passed with good grades. At least one year of chemistry is required, and a year of physics is recommended. Work for the degree will require eighteen hours in advanced courses in zoology, six hours in a minor department, and a thesis.

For admission to candidacy for the Ph.D. degree it is expected that the undergraduate major in zoology will amount to about thirty-two hours which have been passed with good grades. Comparative anatomy of vertebrates or vertebrate zoology, physiology, and embryology must be included in the undergraduate major. At least two years of chemistry and one year of botany are required and one year of physics is recommended; for certain fields organic chemistry is desirable. Toward the end of the first year of residence a committee will be appointed for each candidate, which will review his preparation and set specific requirements to be met. This program will include one or more graduate courses in each of several fields of zoology; broad knowledge of science in general and of biology in particular, attained by wide reading; required major and minor courses, and research; and a satisfactory dissertation which is the result of original work. The Department requires that a first draft of the dissertation shall be completed by March 15 of the year in which the degree is to be conferred. At least one year before the degree is to be conferred each candidate must pass an examination on the whole field of zoology and the minor.



## FOR SENIORS AND GRADUATES

**204. Advanced Parasitology.**—Lectures, conferences, readings, and laboratory work dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. **4 s.h.**

ASSISTANT PROFESSOR WHARTON

**222. Entomology.**—Anatomy, physiology, embryology, and classification of insects. Prerequisite: one year of zoology. **4 s.h.**

PROFESSOR GRAY

**224. Vertebrate Zoology.**—A study of the life histories, adaptations, ecology, and classification of vertebrate animals. Prerequisite: Zoology 53. **4 s.h.**

PROFESSOR GRAY

**229. Endocrinology.**—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, reports, and laboratory work. Prerequisites: Zoology 53, 92, and 171. **4 s.h.**

**238. Systematic Zoology.**—The fundamental theory and practice involved in the collection, identification and classification of animals. Prerequisites: Zoology 1 and 2. **4 s.h.**

ASSISTANT PROFESSOR WHARTON

**253. Advanced Vertebrate Morphology.**—Lectures, reports and reading assignments in the comparative morphology of the vertebrates, with particular emphasis on theories concerning the interrelationships of vertebrates, and the origin of certain vertebrate structures. Advanced laboratory study in selected groups of vertebrates. Prerequisites: Zoology 53, 92. **4 s.h.**

ASSISTANT PROFESSOR HORN

**274. Invertebrate Zoology.**—A study of structure, functions, and habits of invertebrate animals under normal and experimental conditions. Field trips will be made to study, collect, and classify animals in their natural habitats. Offered in alternate years. Prerequisites: Zoology 1 and 2. **4 s.h.**

ASSOCIATE PROFESSOR BOOKHOUT

**276. Protozoology.**—The morphology, physiology, taxonomy, and culture of protozoa. Offered in alternate years. Prerequisites: Zoology 1 and 2. **4 s.h.**

ASSOCIATE PROFESSOR BOOKHOUT

## FOR GRADUATES

**303. Ecology.**—Relation of animals to environment. Lectures, readings, reports, conferences; laboratory and field work. Offered in alternate years. **4 s.h.**

PROFESSOR GRAY

**306. Advanced Ecology.**—Lectures, conferences, field work, and methods. Offered in alternate years. Prerequisite: Zoology 303. **4 s.h.**

**307. Foundations of Zoology.**—Lectures, readings, and discussions on the background and training essential for a professional zoologist. Offered in alternate years. **2 s.h.**

**324. Advanced Physiology.**—Recent advances in Physiology. Lectures, conferences and laboratory work. Prerequisite: Zoology 171. **4 s.h.**

ASSOCIATE PROFESSOR WILBUR

**328. Experimental Embryology.**—Lectures, readings, reports and laboratory work. Offered in alternate years. Prerequisites: Zoology 53, 92, 171, 156 or equivalents. **4 s.h.**

ASSISTANT PROFESSOR JOHNSON

**341. Historical Zoology.**—Readings and discussions. A critical study of the developments of modern biological concepts and theories, their past and present significance. Offered in alternate years. **2 s.h.**

PROFESSOR HARGITT

**343. Cytology.**—The structure of the cell. Lectures, readings, reports, and laboratory work. Offered in alternate years. Prerequisites: Zoology 53, 92, 156, or equivalent. **4 s.h.**

PROFESSOR HARGITT



**351-352. Zoological Journal Club.**—A weekly meeting of graduate students and Faculty to hear reports and to discuss biological facts, theories, and problems. One hour a week throughout the year. Required of all graduate students who major in zoology. **2 s.h.** STAFF

**353-354. Research.**—Students who have had proper training may carry on research under direction of members of the Staff in the following fields. Hours and credits to be arranged.

- |  |                              |
|--|------------------------------|
| (a) Embryology.                                | ASSISTANT PROFESSOR JOHNSON  |
| (b) Physiology.                                | ASSOCIATE PROFESSOR WILBUR   |
| (c) Histology, Cytology.                       | PROFESSOR HARGITT            |
| (d) Invertebrate Zoology, Histology, Cytology. | ASSOCIATE PROFESSOR BOOKHOUT |
| (e) Ecology.                                   | PROFESSOR GRAY               |
| (f) Entomology, Vertebrate Zoology.            | PROFESSOR GRAY               |
| (g) Vertebrate Morphology and Morphogenesis.   | ASSISTANT PROFESSOR HORN     |
| (h) Parasitology.                              | ASSOCIATE PROFESSOR HUNTER   |
| (i) Parasitology.                              | ASSISTANT PROFESSOR WHARTON  |

**355-356. Seminar.**—Special seminar courses in particular fields are given by various members of the Staff when the number of students makes them desirable. These will be in the fields indicated under courses 353-354 above. **2 s.h.**

### COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS F. BERNHEIM, CONANT, EADIE, HALL, HETHERINGTON, MARKEE,  
MARTIN, NEURATH, PERLZWEIG, AND D. T. SMITH; ASSOCIATE PROFESSORS  
EVERETT, HANDLER, MCCREA, PEELE, SAWYER, AND TAYLOR; ASSISTANT  
PROFESSORS M. L. C. BERNHEIM, DUKE, SCHWERT, AND RUNDLES

The facilities of the departments listed below are available to qualified students for independent or supervised research and investigations whether working for advanced degrees or otherwise.

Graduate students desiring to pursue a major or a minor in any of the departments listed below or to be admitted to any of the courses listed below should consult or write to the Head of the Department concerned: Anatomy, Dr. J. E. Markee; Microbiology, Dr. D. T. Smith; Biochemistry and Nutrition, Dr. W. A. Perlzweig; Physiology and Pharmacology, Dr. Frank G. Hall; Parasitology, Dr. D. S. Martin. Because of special schedules in the Medical School, graduate students are advised to write the Heads of the Department for the exact dates of the different courses.

#### ANATOMY

Completion of training equivalent to that required of an undergraduate majoring in biology is prerequisite for these courses in human anatomy.

**M201. Gross Human Anatomy.**—A course especially designed for graduate students, comprising a complete dissection of the cadaver. The laboratory work is supplemented by conferences which place emphasis on the biological aspects of the subject. Oct., Feb. Hours and credits (maximum **8 s.h.**) by arrangement. Prerequisite: adequate training in comparative anatomy and embryology. DR. MARKEE AND STAFF

**M202. Microscopic Anatomy.**—Conferences and laboratory work on the morphological characteristics of the tissues of the animal body. The work is based upon a study of fresh and prepared material and is approached from the physiological viewpoint. Oct., Feb. Hours and credits (maximum 3 s.h.) by arrangement. Prerequisite: adequate training in histology or cytology.

DR. MARKEE AND STAFF

**M203. Anatomy of the Nervous System.**—A study of the gross and microscopic structure of the human central nervous system, special attention being paid to the structural and functional relationships between the various nuclei and fiber tracts. Oct., Feb. Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201.

DR. MARKEE AND STAFF

**M204. Neuroanatomical Basis of Behavior.**—A study of the gross and microscopic anatomy of the nervous system with emphasis on the structural and functional relationships between tracts, nuclei, and cortical areas. In so far as possible the result of deficit in a system or systems will be demonstrated by motion picture aids and the mechanisms involved will be reviewed and discussed. Restricted to graduate students with the equivalent of a major in Psychology. 3 s.h.

DR. HETHERINGTON

### MICROBIOLOGY

**M221. Bacteriology and Immunology.**—This course is devoted primarily to the study of the biological and immunological relationships of microorganisms (bacteria, fungi, Rickettsia and viruses) in disease. It is not a course in bacteriologic technique. An additional course in technical methods is provided for those who require it. Five lectures, two 1-hour conferences and three laboratory periods of 3 hours each, weekly, in fall quarter. Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 6 s.h.

DR. D. T. SMITH AND STAFF

**M223. Advanced Bacteriology and Immunology.**—This course is intended primarily for graduate students majoring in bacteriology, but it is also available as a minor to such other graduate students in related fields, to whom it is recommended by respective supervising committees and with the approval of the Department of Bacteriology. Prerequisites: Bacteriology and Immunology, M221. 8 s.h.

DR. D. T. SMITH AND STAFF

**M225. Medical Mycology.**—This course is intended to familiarize the graduate student, majoring in mycology, with the fungi causing disease in man and animals. The course includes practical laboratory work with materials from patients in Duke Hospital and that sent to the Duke Fungus Registry from outside sources. Prerequisites: M.A. in Botany with Major in Mycology and M221. Course limited to four students each year. 8 s.h.

DR. CONANT

### BIOCHEMISTRY AND NUTRITION

The program of graduate studies in biochemistry is designed primarily for Ph.D. candidates who intend to pursue a research career in this field. Candidates for the A.M. degree only are not encouraged to apply for admission and are accepted only under exceptional conditions. Before registering for graduate courses in biochemistry, students are required to have completed at least one year of graduate course work in chemistry, physics, and/or biology at Duke University or at some other approved institution. As preparation for courses in advanced chemistry, the student must have completed college courses in analytical geometry and elementary calculus. He also must have had adequate preparation for the reading examination in French and German which is required of candidates for the Ph.D. degree.

**M241. General Biochemistry and Nutrition.**—Three lectures, four laboratory periods of three hours each, one two-hour seminar weekly for eighteen weeks. Prerequisites: general chemistry, organic chemistry, physical and

analytical chemistry, and at least one year of college biology. Feb.-June. **8 s.h.**; without laboratory work **3 s.h.** DRS. PERLZWEIG, TAYLOR, NEURATH, HANDLER, BERNHEIM AND SCHWERT

**M242. Biochemical Preparations.**—Laboratory work with conferences when necessary. This course involves detailed study of the chemistry of enzymes, proteins, fats, carbohydrates and derivatives. Prerequisite: Biochemistry 241 or its equivalent. Hours by arrangement. **2, 3, or 4 s.h.**

DRS. PERLZWEIG, HANDLER, NEURATH, AND SCHWERT

**M341. Theories and Methods of Physical Biochemistry.**—A lecture and seminar course on basic physical concepts and experimental methods in the study of biological compounds and systems. With demonstrations. Given alternately with M343-344. **2 s.h.**

DRS. NEURATH AND SCHWERT

**M343-344. Biochemistry of Proteins and Enzymes.**—A lecture and seminar course devoted to the chemical, physical and biological properties of proteins and enzymes. In the first semester, general aspects of protein chemistry will be considered, whereas in the second semester specific protein and enzyme systems will be reviewed. Given alternately with M341. **4 s.h.**

DRS. NEURATH AND SCHWERT

**M345-346. Seminar** required of all graduate students majoring in biochemistry, one hour per week. **2 s.h.**

DRS. PERLZWEIG, NEURATH, TAYLOR, HANDLER, AND BERNHEIM

**M347-348. Biochemical Research.**—A laboratory course in which the students are introduced to specialized concepts and methods currently employed in biochemical research. This will be accomplished by rotating assignment of the students to the various special laboratories of the department. Prerequisite: Biochemistry M241 or its equivalent. **2, 3, or 4 s.h.**

DRS. PERLZWEIG, TAYLOR, NEURATH, HANDLER,  
AND M. L. C. BERNHEIM

**M349-350. Intermediary Metabolism.**—A seminar course devoted to a study of the detailed mechanisms of carbohydrate, fat and protein metabolism. Given alternately with Biochemistry M251-352. Prerequisite: Biochemistry M241 or its equivalent. **4 s.h.**

DR. HANDLER

**M351-352. Nutrition.**—A seminar course in which the chemical and physiological behavior of essential nutritional factors is considered, as well as the nature of deficiency states. Prerequisite: Biochemistry M241 or its equivalent. Given alternately with Biochemistry M349-350. **4 s.h.**

DRS. HANDLER AND PERLZWEIG

## HEMATOLOGY

**M211.** Three lectures and three laboratory periods of 3 hours each, weekly, for eleven weeks in the spring quarter. Prerequisites: courses in general zoology, general botany, histology and comparative anatomy. **4 s.h.**

DR. RUNDLES

## PHYSIOLOGY AND PHARMACOLOGY

**M261-262. Human Physiology.**—Six lectures and twenty laboratory hours per week. Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. Feb.-June. Credits depending on work taken. (Maximum **8 s.h.**)

**M365. Respiration and Aero-Physiology.**—A study of the fundamental respiratory processes in living organisms, and of the special physiological responses and adjustments of the individual during high altitude flight. Lectures, conferences, laboratory. Prerequisites: M261-2 or equivalent. **4 s.h.** DR. HALL

**M367. Physiology of the Nervous System.**—Presentation of the fundamental processes of nervous tissue and of the integration of these functions in man. Lectures, conferences, and laboratory. Prerequisites: M261-2 or equivalent. 2 s.h. DR. EADIE

**M369. Pharmacology. Mode of Action of Drugs.**—Studies and discussions of the pharmacological action of drugs in terms of biochemical and physiological processes. Lectures, conferences, and laboratory. Prerequisites: M261-2 or equivalent. 4 s.h. DR. F. BERNHEIM

**M370. Seminar.**—A weekly meeting of graduate students and staff in which papers reviewing classical and current physiological literature are reported. Required of all graduate students who are candidates for A.M. or Ph.D. degrees. 2 s.h. DR. EADIE, DR. HALL AND STAFF

**M372. Research.**—Individual investigations in the various fields of physiology. Credits to be arranged. STAFF

#### MEDICAL PARASITOLOGY

**M291. Medical Parasitology.**—One lecture and one three-hour laboratory period per week for eleven weeks during the fall quarter. Prerequisites: courses in Zoology 204, general botany, histology and comparative anatomy. 1 s.h. DR. MARTIN AND STAFF



## ADVANCED DEGREES CONFERRED JUNE 7, 1948

### MASTER OF ARTS

Ackerman, Hugo Sheridan	Howard, Raydeen Roland
Arbogast, Grace Kramer	Howell, Wilson McDaniel
Beatson, James Allen	Lamparter, William Smith
Bennett, William Sabin	Lind, Edward Louis
Bevan, John Morgan	Lowe, Donald Scott
Bobbitt, Pearl Burkhead	McMahan, Betty Anne
Bollens, Jack C.	McMillan, John Johnson
Brown, Jonas William	Montgomery, Theron Earle, Jr.
Bryson, Pauline Pressley	Pierson, Robert Malcolm
Cannon, William Maury, Jr.	Poos, Frederick William
Clay, Leo Roderick	Poos, Margaret Stevenson
Craven, Clyde Rober	Roberts, Frances Lenora
Crompton, Shirley	Scherer, Wallace Brown
Davidson, William David	Simpson, Ruth Winifrid
Dickinson, Lucile Lawton	Sloan, John Lindsay
Ferrell, Doctor Thomas, Jr.	Smith, Natalie Blanche
Friend, Fred Erwin	Soltero, Mercedes
Griffin, James Edward	Spencer, Stephen Marion, Jr.
Hahn, Martha Strowd	Stalzer, Robert Frederick
Harvin, Harry Lewis, Jr.	Vickers, Lawrence Otis
Henderson, Alice Lois	Watson, Marjorie
Holton, Jean Morris	Wilbur, Robert Lynch
Hopke, Ernest Rudolph	Wolford, Richard Wilson
Hornaday, John Albert	

### MASTER OF EDUCATION

Lyles, Nancy Ellen	Omwake, H. Geiger
Mitchell, Lester M.	

### DOCTOR OF PHILOSOPHY

- BEVAN, WILLIAM, JR., A.B., Franklin and Marshall College; A.M., Duke University.  
 Dissertation: *The Influence of Figural After-effects Upon Visual Intensity Thresholds.*
- BOYER, CHARLES C., B.S., St. Bonaventure College; A.M., Duke University.  
 Dissertation: *Development of the Golden Hamster, Cricetus Auratus, with Special Reference to the Major Circulatory Channels.*
- CLARK, FRANK EUGENE, A.B., Dartmouth College; A.M., Duke University.  
 Dissertation: *Muirhead's Theorem and Its Extension.*
- CLINE, JOHN, A.B., A.M., Duke University.  
 Dissertation: *Hawthorne and the Bible.*
- FIELD, FRANK HENRY, B.S., A.M., Duke University.  
 Dissertation: *Magnetic Moments of Complex Ions: Magnetic Studies on Complex Ions of Nickel, Cobalt, and Iron.*
- FITZGERALD, ROBERT JAMES, B.S., Fordham College; M.S., Virginia Polytechnic Institute.  
 Dissertation: *The Effects of Various Factors on the Growth and Metabolism of Certain Mycobacteria.*

- GAISER, RICHARD NICHOLSON, B.S., University of California; M.F., Duke University.  
Dissertation: *Relation between Soil Characteristics and the Site Index of Loblolly Pine in the Coastal Plain Region of Virginia and the Carolinas.*
- GARCÍA DE QUEVEDO, JOSÉ LUIS, B.S. in E.E., University of Puerto Rico; M.E.E., Rensselaer Polytechnic Institute.  
Dissertation: *Frequency Stabilization of Microwave Oscillators by Spectrum Lines.*
- GARCÍA MORÍN, MANUEL, B.S., University of Puerto Rico; A.M., Columbia University.  
Dissertation: *The Soret Coefficient of Certain Electrolytes.*
- HAHN, SAMUEL WILFRED, A.B., Lenoir-Rhyne College; A.M., Duke University.  
Dissertation: *Universal Spaces Under Strong Homeomorphisms.*
- HALL, ARTHUR RYKER, A.B., A.M., University of Oklahoma.  
Dissertation: *History of Land Use as Related to Soil Erosion in the Southern Piedmont, 1650-1935.*
- HARRIS, ISABELLA DEAS, A.B., Wesleyan College; A.M., Duke University.  
Dissertation: *The Southern Mountaineer in American Fiction, 1824-1910.*
- HOLMAN, HARRIET R., A.B., Winthrop College; A.M., University of Michigan.  
Dissertation: *The Literary Career of Thomas Nelson Page, 1884-1910.*
- KAMIN, HENRY, B.S., College of the City of New York.  
Dissertation: *The Metabolism of Parenterally Administered Glycine.*
- KESSLER, MYER, B.S., M.S., Massachusetts Institute of Technology.  
Dissertation: *A Microwave Spectrograph and Its Use for the Determination of Nuclear and Molecular Constants.*
- KINCHELOE, HENDERSON GRADY, A.B., University of Richmond; A.M., Harvard University.  
Dissertation: *British Periodical Criticism of American Literature, 1851-1870.*
- KREPS, CLIFTON HOLLAND, JR., A.B., College of William and Mary; A.M., University of North Carolina.  
Dissertation: *The Divisibility and Employment of Capital within the Firm and the Short-Run Production and Cost Functions: A Study of Economic Assumptions.*
- KREPS, JUANITA MORRIS, A.B., Berea College; A.M., Duke University.  
Dissertation: *Developments in the Political and Legislative Policies of Organized Labor, 1920-1947.*
- LEVITSKY, IHOR ALEXANDER, A.B., University of Rochester; A.M., University of Buffalo.  
Dissertation: *The Concept of Measurement in the Social Sciences.*
- LIMOUZE, ARTHUR SANFORD, A.B., College of Wooster; A.M., Columbia University.  
Dissertation: *A Study of Nathaniel Mist's Weekly Journals.*
- RAPP, MARVIN AUGUST, A.B., Colgate University; A.M., Duke University.  
Dissertation: *The Port of Buffalo, 1825-1880.*
- REYNOLDS, THOMAS DAVIES, A.B., A.M., Duke University.  
Dissertation: *Analytic Solutions of Integral Equations with Non-Analytic Kernels.*
- ROBERTS, HENRY STOUTTE, JR., A.B., Mercer University.  
Dissertation: *The Effects of Cold on Mitochondrial Form in Tissues of Larval Salamanders.*

SIMMONS, JAMES WOOD, B.S., Hampden-Sydney College; M.S., Virginia Polytechnic Institute.

Dissertation: *Determination of Molecular and Nuclear Constants from the Microwave Spectra of the Methyl Halides.*

SMITH, WILLIAM J. J., A.B., University of Texas.

Dissertation: *The Theoretical Work of Thorstein Veblen.*

STEWART, PAUL DEKKER, A.B., Hope College; A.M., Duke University.

Dissertation: *The Impeachment and Trial of Governors.*

WILLIAMS, LOUIS GRESSETT, A.B., Marshall College; A.M., Duke University.

Dissertation: *Marine Algae of Cape Lookout, North Carolina.*

YOST, ROBERT STANLEY, B.S., Pennsylvania State College.

Dissertation: *1, 2 and 1, 4 Additions of Cinnamic Esters. Synthesis of Diphenylmethyl Derivatives and Antimalarial Intermediates.*

YOUNG, HAROLD EDLE, B.S., University of Maine; M.F., Duke University.

Dissertation: *The Effects of Pruning on Diameter and Height Growth of Loblolly Pine.*

#### ADVANCED DEGREES CONFERRED SEPTEMBER 1, 1947

##### MASTER OF ARTS

Archbold, Juliana Elizabeth	Hunter, Adelaide Meador
Asbury, Jean Gray	Johnson, Natalie Kristina
Baird, Sybil	Keen, Quentin Begley
Barnes, Jack Carlisle	King, Doris Elizabeth
Battle, Guy Arthur, Jr.	Lawton, Robert Oswald, Jr.
Bergman, Herbert	Logan, S. Frank
Berry, Lucia Kendall	Loveless, Ruth
Brokaw, Ruth W.	Lundeberg, Philip Karl
Brothers, Wilbur Leo	Luttrell, Karl Francis
Brouse, Albert J.	Mackie, Mary Mildred
Busch, Bruce Lipscomb Moore	Matthews, Hester Poole
Clees, James Cameron	McKenzie, Emory J.
DeMent, Russell Duke	Moody, Peter Richard
Dolson, James Frederick	Morris, Irene
Edelman, Irving J.	Patrick, William Franklin, Jr.
Failing, George E.	Rudin, Walter
Foster, Abram John	Saperstein, Passie Othello
Fulton, Lewis McLeod, Jr.	Soltero, Luz Eloise
Gibbons, Jean Worley	Sommer, Esther Lucille
Goodwin, Noma Lee	Sterne, Richard Stephen
Haley, Leonor Davison	Stone, Ann
Hench, Harold Ernest	Storch, Margaret Rees
Hood, Edwin Morris	Topper, Pearl
Hull, Alfred Newton	Webb, William Edward

##### MASTER OF EDUCATION

Blakeslee, Edward Ray, Jr.	Kerr, Willard Eugene
Browning, Lon E.	Lewis, Marian Marie
Crouch, Walton	Marcikonis, Paul John
Cushing, Mary-Louise	Rogers, Greene Titus
Duggins, Clarence Wofford	Sammons, Elizabeth Rumble
Evatt, David Gaines	Seales, Keith Wimmer
Fowler, Frederick Lybrand	Southerland, Myra Azalene
Holton, Samuel Malanchthon	Summerall, Margaret Elizabeth
Hunter, W. Alexander	Talley, Joseph Warren
Jones, Vernie Okle	









VOLUME 21

May, 1949

NUMBER 7-A

# BULLETIN OF DUKE UNIVERSITY

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*The Divinity School*



1948-1949

ANNOUNCEMENTS FOR 1949-1950

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE COLLEGE OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF LAW, apply to *The Dean of the School of Law*, Duke University, Durham, N. C.

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For BULLETIN OF THE DIVINITY SCHOOL, apply to *The Dean of the Divinity School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF FORESTRY, apply to *The Dean of the School of Forestry*, Duke University, Durham, N. C.

For BULLETIN OF THE SUMMER SESSION, apply to *The Director of the Summer Session*, Duke University, Durham, N. C.

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BULLETIN  
OF  
DUKE UNIVERSITY



THE DIVINITY SCHOOL

1948-1949

ANNOUNCEMENTS FOR 1949-1950

DURHAM, NORTH CAROLINA

1949



ENTRANCE TO THE DUKE DIVINITY SCHOOL

## CALENDAR

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1949

- Sept. 20 Tuesday—Dormitories open for occupancy.  
Sept. 22 Thursday, 3:30 P.M.—Orientation program for new students begins.  
Sept. 26 Monday, 9:00 A.M.-4:00 P.M.—Matriculation and registration of students.  
Sept. 27 Tuesday, 8:30 A.M.—Instruction begins.  
Sept. 28 Wednesday, 11:00 A.M.—Formal opening exercises.  
4:00 P.M.—First regular faculty meeting.  
Nov. 24 Thursday—Thanksgiving Day; a holiday.  
Dec. 11 Sunday—Duke University Day.  
Dec. 20 Tuesday, 5:00 P.M.—Christmas recess begins.

1950

- Jan. 3 Wednesday, 8:30 A.M.—Instruction is resumed.  
Jan. 18 Wednesday—Mid-year examinations begin.  
Jan. 28 Saturday—Mid-year examinations end.  
Jan. 30 Monday, 9:00 A.M.-4:00 P.M.—Matriculation and registration for second semester.  
Feb. 1 Wednesday, 8:30 A.M.—Second semester begins.  
March 25 Saturday, 1:00 P.M.—Spring vacation begins.  
April 4 Tuesday, 8:30 A.M.—Instruction is resumed.  
April Wednesday—English Bible examination in Old Testament (date to be announced).  
April Wednesday—English Bible examination in New Testament (date to be announced).  
May 22 Monday—Final examinations for second semester begin.  
June 1 Thursday—Final examinations end.  
June 3-5 Commencement.

## GENERAL ADMINISTRATION

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ARTHUR HOLLIS EDENS, B.Ph., A.M., M.P.A.

PRESIDENT OF DUKE UNIVERSITY

PAUL MAGNUS GROSS, B.S., A.M., Ph.D.

VICE-PRESIDENT IN THE EDUCATIONAL DIVISION

CHARLES EDWARD JORDAN, A.B., LL.D.

VICE-PRESIDENT IN THE DIVISION OF PUBLIC RELATIONS, SECRETARY OF THE  
UNIVERSITY

HERBERT JAMES HERRING, A.B., A.M., LL.D.

VICE-PRESIDENT IN THE DIVISION OF STUDENT LIFE

ALFRED SMITH BROWER, A.B.

*Business Manager and Comptroller*

CHARLES BLACKWELL MARKHAM, A.B., A.M.

*Treasurer of the University*

### COMMITTEE OF THE BOARD OF TRUSTEES ON THE DIVINITY SCHOOL

W. W. PEELE, T. M. GRANT, H. B. PORTER, N. E. EDGERTON, W. A. STANBURY

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## EDUCATIONAL ADMINISTRATION

BOSLEY, HAROLD A., B.A., B.D., Ph.D., D.D.

*Dean of the Divinity School*

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.

*Dean Emeritus of the Divinity School*

YOUNG, FRANKLIN WOODROW, A.B., B.D., Ph.D.

*Dean of Students*

SMITH, HILRIE SHELTON, A.B., Ph.D., D.D., Litt.D.

*Director of Graduate Studies in Religion*

EHLHARDT, GEORGE BRINKMANN, A.B., B.D.

*Registrar and Librarian of the Divinity School*



## FACULTY

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BOSLEY, HAROLD A., A.B., B.D., Ph.D., D.D.  
*Dean of the Divinity School, Professor of Philosophy of Religion,  
and Preacher to the University*

BEACH, WALDO, A.B., B.D., Ph.D.  
*Associate Professor of Christian Ethics*

CANNON, JAMES, III, A.B., A.M., Th.B., Th.M., D.D.  
*Ivey Professor of the History of Religion and Missions*

CLARK, KENNETH WILLIS, A.B., B.D., Ph.D.\*  
*Professor of New Testament*

CLELAND, JAMES T., M.A., B.D. (Glasgow), S.T.M.  
*Professor of Preaching and Preacher to the University*

CUSHMAN, ROBERT E., A.B., B.D., Ph.D.  
*Professor of Systematic Theology*

DICKS, RUSSELL L., A.B., B.D., D.D.  
*Associate Professor of Pastoral Care*

EHLHARDT, GEORGE BRINKMANN, A.B., B.D.  
*Registrar and Librarian of the Divinity School*

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.  
*Professor of Psychology of Religion and Preacher to the University*

MYERS, HIRAM EARL, A.B., S.T.B., S.T.M.  
*Professor of Biblical Literature*

ORMOND, JESSE MARVIN, A.B., B.D., D.D.  
*Professor Emeritus of Practical Theology*

PETRY, RAY C., A.B., A.M., Ph.D., LL.D.  
*Professor of Church History*

ROWE, GILBERT THEODORE, A.B., S.T.D., D.D., Litt.D.  
*Professor Emeritus of Christian Doctrine*

RUDIN, JOHN JESSE, II, A.B., B.D., M.A.  
*Assistant Professor of Speech*

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.  
*Dean Emeritus of the Divinity School*

SMITH, HILRIE SHELTON, A.B., Ph.D., D.D., Litt.D.  
*Professor of American Religious Thought*

SPENCE, HERSEY EVERETT, A.B., A.M., B.D., D.D., Litt.D.  
*Professor of Religious Education*

STINESPRING, WILLIAM FRANKLIN, B.A., M.A., Ph.D.  
*Professor of Old Testament*

WALTON, ARLEY JOHN, A.B., B.S.L., D.D.  
*Associate Professor of Practical Theology and Director of Field Work*

YOUNG, FRANKLIN WOODROW, A.B., B.D., Ph.D.  
*Assistant Professor of Biblical Theology*

BARNES, JAMES FOSTER, A.B., A.M.  
*Lecturer on Church Music*

\* On leave, 1949-50.

## COMMITTEES OF THE FACULTY

The Dean is an *ex officio* member of all committees.

*Admissions:* Cannon, Ehlhardt, Walton, Young.

*Alumni:* Ehlhardt, Cannon, Hickman, Spence.

*Chapel Services and Spiritual Life:* Cushman, Cleland, Petry, Rudin.

*Curriculum:* Cannon, Cushman, Dicks, Hickman, Smith.

*Divinity School Bulletin:* Spence, Cleland, Walton.

*Divinity School Seminars:* Ehlhardt, Myers, Stinespring.

*Faculty Advisers for Students:* Young, Beach, Myers.

*Library:* Petry, Cushman, Ehlhardt, Stinespring.

*Public Exercises:* Smith, Beach, Cleland, Petry.

*Radio Services:* Rudin, Cleland, Dicks.

*Registration:* Ehlhardt, Beach, Rudin, Young.

*Schedule:* Ehlhardt, Hickman, Rudin, Young.

*Scholarship Aid:* Walton, Ehlhardt, Young.

*Social:* Beach, Rudin, Spence.

*Student Evaluation:* Young, Ehlhardt, Petry, Walton.

# THE DIVINITY SCHOOL OF DUKE UNIVERSITY

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## GENERAL INFORMATION

### HISTORICAL STATEMENT

The Indenture of Trust signed on December 11, 1924, by Mr. James B. Duke, which established Duke University, mentioned first among its objects the training of ministers of the Gospel. The Divinity School was, accordingly, the first of the graduate professional schools to be organized. Its work began with the year 1926-27, the formal opening exercises being held on November 9, 1926.

The Reverend Doctor Edmund Davison Soper was the first dean of the Divinity School. He was succeeded in 1928 by the Reverend Doctor Elbert Russell, and the latter in turn in 1941 by the Reverend Doctor Paul Neff Garber. In 1944, Dean Garber was elected to the episcopacy of the Methodist Church, and Doctor Harvie Branscomb assumed the duties of the dean's office. In 1946, Dean Branscomb became Chancellor of Vanderbilt University and in 1947, the Reverend Doctor Paul E. Root was elected dean but died before he could assume the office. The Reverend Doctor Harold A. Bosley, pastor of the Mount Vernon Place Methodist Church, Baltimore, Maryland, became dean on September 1, 1947.

### THE PURPOSE OF THE DIVINITY SCHOOL

The primary purpose of the Divinity School is to provide training for individuals planning to enter the Christian ministry. This includes not only prospective ministers in local churches, but also those preparing themselves to be missionaries at home and abroad, directors of religious education, teachers of religion, and social workers. Vital to all of these forms of service is a full understanding of the beginnings, content, and history of the Christian faith and its special pertinence for the spiritual needs of the modern world. Studies of a broad and thorough character directed toward such an understanding constitute the center of the curriculum of the Divinity School and are regarded as the basic training for all prospective Christian workers. Specific training in the skills required of local ministers and of leaders in the work of religious education are also provided. As funds become available for the purpose and as needs appear, additional training in specialized skills and areas of knowledge will be added to the curriculum.

Though bound by ties of history and obligation to the Methodist Church, the Divinity School is multi-denominational in its interests and ecumenical in its outlook. Its faculty is limited to no one denomination, but draws upon the resources of them all. Students of the several denominations are admitted on the same basis. The Divinity School conceives its task to be one of broad service to the Church of Christ in all of its forms.

**THE RELATION OF THE DIVINITY SCHOOL TO DUKE UNIVERSITY**

The Divinity School is an integral unit of the University and shares fully in its activities, privileges and responsibilities. The Sunday services in the University Chapel give the Divinity School students an opportunity to hear each year a number of the leading preachers of the country. The University Library, conveniently located next to the Divinity School Building, makes easily accessible a rich collection of approximately three quarters of a million volumes. Selected courses in the Graduate School of Arts and Sciences and in the professional schools are open to Divinity School students without payment of additional fees. The general cultural and recreational resources of the University are available to them on the same basis as other students.

**LIBRARY RESOURCES**

The Divinity School has its own library containing over forty-six thousand volumes. It is rich in complete files of the more important religious journals and periodicals, in source materials, particularly for the study of American church history, missions and the history of religion, and in facsimiles of the more important manuscripts of the New Testament. Among the most treasured possessions of the Library are eleven Greek New Testament manuscripts, of which one is a magnificent manuscript of the thirteenth or fourteenth century containing the entire text of the New Testament.

The general Library of the University is connected by a corridor with the Divinity School Building. It contains over seven hundred thousand volumes and receives the current issues of several thousand periodicals. The general Library contains also a catalogue of the library of the University of North Carolina located at Chapel Hill, twelve miles away, and a system of exchange operates between the two libraries so that books may be secured from that library also within a few hours.

The Henry Harrison Jordan Loan Library was endowed in 1947 by the children of the late Reverend Henry Harrison Jordan for the purpose of providing ministers in the field with the best of current religious literature. This collection was an outgrowth of the Duke Divinity School Loan Library established in 1944.

**RELIGIOUS AND SOCIAL LIFE**

One of the most important aspects of a program of training for religious service is the development of a warm and discriminating spiritual experience. The center of the corporate life of the Divinity School is its own place of worship, York Chapel. Regular chapel services are held at which all students are expected to be present. Services are led by members of the faculty, by visiting ministers, and by members of the student body. Ordination and other special services are held upon occasion. On each Sunday morning services are held in the University Chapel.

The student body of the Divinity School is united by a strong sense of fellowship and common interest. Student committees organize and supervise social service projects and missions of preaching, jail visitation, and related enterprises. Opportunities for occasional preaching are always available.



**PUBLIC LECTURES**

The Divinity School presents three public lectures annually. The lecturers for 1948-49 were Professor David E. Roberts, Associate Professor of Philosophy and Systematic Theology, Union Theological Seminary, New York; Dr. Kenneth Scott Latourette, Professor of Missions and Oriental History in the Yale Divinity School; and Dr. Erich Franck, Professor of Philosophy in the University of Pennsylvania. A special lecture was given by Dr. R. H. Thouless, Cambridge University, Cambridge, England.

**THE DIVINITY SCHOOL LIBRARY LECTURES**

In 1948 the Duke Divinity School Library Lectures were established by the Reverend George B. Ehlhardt for the purpose of bringing to the campus a succession of the greatest religious leaders of the day. The first lecturer was the Reverend Dr. William Warren Sweet, distinguished historian of the American churches, and during the academic year 1948-1949 lectures on this endowment were given by the Reverend George Dunbar Kilpatrick, M.A., D.D., Dean Ireland's Professor of Exegesis of Holy Scripture, Oxford University, Oxford, England, and Dr. Wilhelm Pauck, Professor of Historical Theology at the University of Chicago.

**THE CHRISTIAN CONVOCATION**

The Christian Convocation of 1949 will be held on the Duke campus from June 7-10. The Convocation, under the joint sponsorship of the Duke Divinity School, The North Carolina Pastors' School, The North Carolina Rural Church Institute, and The North Carolina Council of Churches, will bring to the campus an outstanding group of religious leaders as lecturers and teachers.

**ENDOWED SCHOLARSHIP FUNDS**

Certain special scholarship funds have been established, the income of which is available for students wishing to secure training in preparation for the Christian ministry.

These scholarships are all awarded on the basis of service performed in a local church, thus providing for the student experience as well as financial aid.

**N. Edward Edgerton Fund**

In 1939 Mr. N. Edward Edgerton of Raleigh, North Carolina, an alumnus of Duke University of the Class of 1921, a member of the Board of Trustees of the University and a member of the Committee on the Divinity School, established the N. Edward Edgerton Fund. The award is limited to students who are candidates for the B.D. degree.

**P. Huber Hanes Scholarship**

Mr. P. Huber Hanes of Winston-Salem, North Carolina, an alumnus of Duke University of the Class of 1900 and a member of the Board of Trustees, has established an annual scholarship yielding the sum of \$400.00.

**Elbert Russell Scholarship**

In 1942 the Alumni Association of the Divinity School established a scholarship fund in honor of Elbert Russell, Dean Emeritus of the Divinity School and for a number of years Professor of Biblical Theology.

**W. R. Odell Scholarship**

In 1946 the Forest Hills Methodist Church, Concord, North Carolina, established a scholarship fund in memory of W. R. Odell, for many years a member of the Board of Trustees of the University.

**Hersey E. Spence Scholarship**

In 1948 the Steele Street Methodist Church of Sanford, North Carolina, established a scholarship fund in honor of Professor Hersey E. Spence, a former pastor of the congregation.

**Jesse M. Ormond Scholarship Fund**

In 1949 the North Carolina Conference established a scholarship fund in honor of Professor Jesse M. Ormond, who for many years was Director of Field Work in the Duke Divinity School and Professor of Practical Theology.

**Duke Endowment Scholarships**

There are available for students preparing for the Methodist ministry approximately sixty work scholarships provided by the Duke Endowment for aiding rural Methodist churches in North Carolina. Terms of these scholarships are given on page 14 of this catalogue.

**ANNUAL SCHOLARSHIPS**

In addition to the endowed scholarships and those provided by the Duke Endowment, the Divinity School receives annual scholarship funds from the following churches and individuals: The Edenton Street Methodist Church, Raleigh, N. C.; West Market Methodist Church, Greensboro, N. C.; Myers Park Methodist Church, Charlotte, N. C.; Christ Methodist Church, Charleston, W. Va.; Mr. J. C. Cowan, Jr., Greensboro, N. C. These scholarships are awarded on the same basis as the endowed scholarships.

**THE METHODIST COLLEGE ADVANCE**

The Divinity School was a participant in the North Carolina Methodist College Advance with askings of \$200,000.00 for scholarship aid and extension of the School's service to ministers. Many local churches and individuals have shared in the raising of this significant sum. Specific contributions are the Henry Harrison Jordan Loan Library and the James A. Gray Fund.

**THE JAMES A. GRAY FUND**

In 1947 Mr. James A. Gray of Winston-Salem, North Carolina, presented the fund which bears his name to the Divinity School for use in expanding and maintaining its educational services in behalf of North Carolina churches and pastors. From this fund four scholarships are awarded, two in city church work, and two in rural church work. The Divinity School Seminars are also supported by income from this gift. During 1949 Seminars were held in Kinston, North Carolina, and Charlotte, North Carolina. Special lecturers on these occasions were Dr. Thomas S. Kepler of Oberlin Graduate School of Theology, Oberlin,

Ohio, and Dean Harold A. Bosley of Duke Divinity School. Lectures at the Christian Convocation are also made possible through this fund. In 1948 Dr. Paul Hutchinson, Editor of *The Christian Century*, was the lecturer.

#### **COURSES OF STUDY OFFERED BY THE DIVINITY SCHOOL**

The Divinity School offers at present two courses of study. The basic course is that which leads to the degree of Bachelor of Divinity. This is a three-year course and is recommended to all those preparing themselves for the work of the regular pastoral ministry.

Beginning with the year 1944-45 the Divinity School offered also a course of study leading to the degree of Master of Religious Education. This course is designed for individuals who wish to become directors or to take other specialized positions in the work of religious education. The course does not provide a general preparation for the work of the regular ministry and cannot serve as a substitute for it. No exchange of credits between the two courses is permitted, nor can departmental courses taken be credited toward more than one degree. Only a limited number of candidates for the Master of Religious Education degree will be accepted annually.

The requirements for each of these degrees are stated on pages 15 through 26 in this catalogue.

#### **COURSES OF STUDY IN RELIGION OFFERED BY THE GRADUATE SCHOOL OF ARTS AND SCIENCES**

Students who desire to pursue work in religion beyond that for the Bachelor of Divinity degree should register in the Graduate School of Arts and Sciences, through which the degrees of Master of Arts and Doctor of Philosophy may be obtained. This advanced work is administered through the Department of Religion of the Graduate School and is available to qualified persons of all denominations on an equal basis. Study and research may be pursued in three fields: (1) Biblical Studies; (2) Studies in Church History; and (3) Studies in Christian Thought. A list of courses approved by the Graduate Council for work in these fields, together with general requirements for admission to the Graduate School, may be found in the *Bulletin of the Graduate School*. This Bulletin is available on application to Dean Paul Gross, the Graduate School of Arts and Sciences, Duke University.

A limited number of University Scholarships and Fellowships, among which are two Gurney Harriss Kearns Fellowships of \$1,000 each, may be obtained by exceptionally qualified students. Applications for these must be submitted to Dean Gross on University form blanks not later than March 15 of each year.

Inquiries concerning specific requirements of the Department of Religion in the Graduate School should be addressed to Professor H. Shelton Smith, Director of Graduate Studies in Religion.

#### **FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS OF ORIENTAL RESEARCH**

The Divinity School of Duke University is one of the supporting members of the American Schools of Oriental Research. Accordingly,

students in the Divinity School have the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They may also compete for the financial aids which are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.



## **COST, RESIDENTIAL ARRANGEMENT, AND STUDENT AID**

### **FEES AND COSTS**

The University tuition charge is \$175 per semester. Scholarships covering this amount are granted to all Divinity School students. Other charges are as follows:

*Fees per semester:*

General Fee.....	\$ 50.00
Approximate cost of meals per semester.....	175.00
Room per semester (double room).....	62.50
Total per semester.....	<hr/> \$287.50

The "General Fee" is in lieu of all special charges, and includes the following Fees: Matriculation, Medical, Library, Damage, Commencement and Diploma. Students may secure admission to all athletic contests held on the University grounds by payment of the Athletic Fee of \$5.00 per semester, plus any Federal taxes that may be imposed.

### **LATE REGISTRATION**

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of \$5.00.

### **DINING HALL**

The dining halls in the University Union have accommodations for all resident Divinity School students. Food service is cafeteria style. The cost of meals approximates \$1.25 to \$1.75 per day depending upon the need and taste of the individual. The dining facilities on the West Campus include three cafeterias with multiple choice menus and, in addition, the Oak Room where full meals and *a la carte* items are served.

### **LIVING QUARTERS**

Divinity School students are housed in the University dormitories along with other graduate and professional students. Application for room assignments should be addressed to the Housing Bureau, Duke Station, Durham, N. C. The cost of a single room is \$87.50 per semester, or a double room \$62.50 per student per semester. A reservation fee of \$25 is required at the time a room is assigned. This reservation fee is deducted from the room charges at the time of registration. Students are urged to apply for rooms as early as possible. Under present circumstances delays in application are likely to result in failure to secure accommodations. Students occupying rooms in the dormitories who wish to retain their rooms for a following year must notify the Office of the Director in the Business Division by May 15.

All rooms in the dormitories are provided with heat, water, electric lights, and essential furniture. Each student furnishes his own blankets, sheets (mattresses 39" x 74"), pillows and pillow slips, towels, rugs and curtains.

The University has no apartments for married students. Students desiring such quarters should plan to arrive in Durham as early as possible before the opening of the fall semester in order to make their living arrangements. While the Divinity School Office will assist wherever it can in these matters, it cannot assume responsibility for making such arrangements.

#### STUDENT AID

Duke University remits its regular tuition charges to all students enrolled in the Divinity School. Scholarship aid, over and above this, is available only in the form of work scholarships. The funds for these scholarships come from the sources described on page 10 of this catalogue. Those appointed to these scholarships agree to give ten weeks' service during the summer months to a church to which they are assigned. In return they receive their board and room for the period of their summer service and \$600. This latter sum is made available during the academic year preceding the summer work if desired. By special arrangement a student may be assigned to a church for five weeks' work with one-half the stated remuneration.

This plan of scholarship aid has several advantages. It provides an opportunity for earning a large part of the year's expenses, while at the same time assuring the student valuable experience in religious leadership.

Students who must have additional income over and above their summer's earnings may secure part-time employment during the academic year. They are strongly urged, however, to make their arrangements, if possible, so that they will not have duties which will prevent them from taking the fullest advantage of the educational and cultural opportunities of the Divinity School.

#### WORK SCHOLARSHIPS

The Department of Field Work is maintained to help students receiving scholarship aid to secure work opportunities where they may render service for such aid. Their work will be supervised so that their experiences may be part of their ministerial training. Students not on scholarship are also helped to secure work opportunities for the experience to be gained. All students working under the department have their board, room, laundry, and travel expenses provided by the charge served. Certain courses are required of all students engaged in field work and are designed to prepare students for the work in which they engage. All students assigned to field work must maintain satisfactory grades and attitudes.

#### STUDENT GOVERNMENT ASSOCIATION

Each student of the Divinity School upon enrollment becomes a member of the Student Government Association. Four officers are elected by the student body annually in April to serve for the following year. These officers, the President, Vice-President, Secretary, and Treasurer, along with the Dean of the Divinity School or the Dean of Students, serve as the Executive Committee, and the committee chairmen constitute the Student Council which meets in monthly session to review and coordinate the programs of the several committees. It is desired that all students con-

tribute to the corporate life of the school through active participation in the work of the committees. The Association operates on the basis of a unified budget, each student contributing to its support dues in the amount of \$3.00 per semester.

## REQUIREMENTS FOR GRADUATION

### REQUIREMENTS FOR ADMISSION

The Divinity School is a fully accredited member of the American Association of Theological Schools. Candidates for admission must hold the degree of A.B., based upon four years of work beyond secondary education, in a college which is approved by one of the regional accrediting bodies, or the equivalent of such a degree, and their college records must be such as to indicate their ability to carry on graduate professional studies. They will be admitted without examination on presentation of an official transcript of college and other academic credits which they may have secured. The application of students from foreign countries will be considered, each on its own merits, the general principle being that a training equivalent to that of a baccalaureate degree from an accredited American college must have been secured. Women will be admitted on the same basis as men. The Divinity School accepts students who desire to transfer from other accredited theological schools on the basis of transcripts of their work and honorable dismissal. However, all transfer students will be expected to meet the full requirements of the Divinity School and should recognize the fact that there may be loss of time in conforming to these requirements. Credits will be formally accepted only after the student has spent one semester in the Duke Divinity School. In addition to an adequate academic preparation, applicants must satisfy the Faculty as to their Christian character and purpose. A formal application blank may be secured from the Dean of the Divinity School. This must be filled out and returned by all candidates for admission.

### ADMISSION OF GRADUATES OF NON-ACCREDITED COLLEGES

1. Applicants for admission who are graduates of non-accredited colleges will be considered on their merits, but only those who give evidence of special promise will be admitted. Specifically, such applicants must show that they have attained a superior average (approximately "B") for a four-year college course.

2. Admission of such persons will, in every case, be *on probation*. Probations means:

- a. Students who, during the first year of Divinity School work (thirty semester hours), maintain a consistently low average, including one or more failures, will be required to withdraw from the school.

- b. In the case of a student admitted on probation, no credit will be granted toward either the B.D. or the M.R.E. degree for any course in which, during the first year's work (thirty semester hours), a grade of less than "S" (see catalogue section on "grading system") is recorded.

- c. When the student has been admitted on probation, and is subsequently found to be deficient in the essential requisites of any given area of the Pre-Seminary Curriculum" (see next section of catalogue), the

Divinity School Faculty reserves the right to direct that the student make up such deficiencies by additional courses of study taken in other schools of Duke University in order to qualify for either the B.D. or M.R.E. degree, but without credit for such courses toward those degrees.

#### PRESEMINARY CURRICULUM

The Divinity School, in substantial agreement with the standards of the American Association of Theological Schools, recommends that prospective candidates for admission keep in mind the desirability of including the following in their undergraduate curriculum:

(A student lacking the essential requisites in any given area may be directed to make up the deficiencies by additional courses of study in order to qualify as a candidate for a Divinity School degree.)

It is suggested that a student should acquire a total of 90 semester hours or complete approximately three-fourths of his college work in the areas listed below. No work done towards a first college degree may be used toward a Divinity School degree.

<i>Basal Fields</i>	<i>Semester</i>	<i>Sem. Hours</i>
English	6	12-16
Literature, Composition and Speech		
Philosophy	3	6-12
At least two of the following:		
Introduction to philosophy		
History of philosophy		
Ethics		
Logic		
Bible or Religion	2	4-6
History	3	6-12
Psychology	1	2-3
A foreign language	4	12-16
At least one of the following:		
Latin		
Greek (especially recommended)		
Hebrew (especially recommended)		
French		
German		
Natural sciences	2	4-6
Physical or biological		
Social sciences	2	4-6
At least two of the following:		
Economics		
Sociology		
Government or political science		
Social psychology		
Education		

#### CONCENTRATION

Concentration of work, or "majoring," is a common practice in colleges. For such concentration or major, a constructive sequence based upon any one, two, or three of the above fields of study would lead up naturally to a theological course.

Of the various possible areas of concentration, where areas of concentration are required, a major in English, philosophy, or history is regarded to be the most desirable.



### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

During the academic year 1948-49, the curriculum of the Divinity School was extensively revised. By action of the faculty, all students admitted to the Divinity School as of September 1, 1949, will conform to the requirements for the B.D. degree as printed in this issue of the catalogue. All students planning to graduate as of June, 1950, will continue under the former plan, especially as to requirement of a major and thesis. A special committee was set up to adjust the new curriculum to the rights and needs of all other students, whether already enrolled in the school or entering as transfers from other institutions: many such students may find it necessary to graduate under the major and thesis plan.

The plan for the first two years of the revised curriculum goes into effect as of September, 1949. The Vocational Groups and the Divisional Seminars called for in the work of the third year are in process of development and will be put into effect for the year 1950-51.

The requirements for the degree of Bachelor of Divinity are the following:

Completion of ninety semester hours of course work, including the required courses of the Core Curriculum, listed on pages 18 and 19.

The selection, not later than the end of the middle year, of one of the Vocational Groups, and completion of the special requirements of the Group chosen, including satisfactory completion of the work of at least one Divisional Seminar in that Group.

Demonstration of a detailed knowledge of the contents of the narrative portions of the English Bible. Examinations for this purpose in Old and New Testament are given each spring. Examinations for the academic year 1949-50 will be held on successive Wednesdays in April, exact dates to be announced later.

Students who show deficiencies in English composition will be required to take special training in addition to meeting the other requirements for the degree.

The course leading to the degree of Bachelor of Divinity is planned to cover three years of normal academic work. In no case will this degree be conferred on a student until he has spent at least two semesters in residence in the Divinity School. This is defined as the completion of thirty semester hours of work, not more than six hours of which may be taken in the Duke University Summer Session.

By special permission a student who has begun his work in Duke Divinity School as a candidate for the B.D. degree may be given credit for not more than 30 semester hours of work taken in another seminary on the approved list of the American Association of Theological Schools. Except in unusual cases, request for such credits must be approved prior to the beginning of work at the other institution. In every such case, however, the final 15 hours of class credit presented for graduation must be done at Duke and must include satisfactory completion of one of the Divisional Seminars of the senior year. No such student will be relieved of any of the requirements for graduation specified in the catalogue of the Duke Divinity School.

Unless all the work offered for the B.D. degree is completed within a period of nine years from the date of beginning, the student will be required to make formal application for re-admission and revaluation of his credits in the light of the then-existing curriculum of the Divinity School. Except in unusual cases, work of a fragmentary character taken over a long period of years, or work taken many years before a student is admitted to the Duke Divinity School, will not be accepted for credit toward the B.D. degree.

### THE CORE CURRICULUM

(Required Courses)

#### First Year, First Term

**11. Introduction to the Old Testament.**—The origins, literary forms, and contents of the books of the Old Testament in their geographical and historical setting. 4 s.h. MR. STINESPRING

**13. History of the Pre-Reformation Church.**—A survey to the sixteenth century in terms of spiritual genius, organizational development, great literature, and representative movements. 4 s.h. MR. PETRY

**15. Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. 3 s.h. MR. CANNON

**17. Effective Speaking.**—Fundamentals of preparation and delivery to develop effectiveness in private and public speech. Individual conferences.

(Students electing Vocational Group I, will, upon recommendation of the instructor, take also Speech 132.) 2 s.h. MR. RUDIN

#### First Year, Second Term

**18. Early Christian Life and Literature.**—A basic study of the civilization in which Christianity began; the origin and development of the Christian Church and its literature through the second century. 4 s.h. MR. CLARK

**20. Introduction to Christian Theology.**—Contemporary theological tendencies, method and theory of knowledge, and introductory interpretation of the principal tenets of the Christian faith. 4 s.h. MR. CUSHMAN

**22. Psychology of Religion.**—An analysis of the major factors in religious experience. 3 s.h. MR. HICKMAN

Students engaged in any kind of Field Work are required to take one of the Field Work Seminars (1 s.h., Mr. Walton). Unless taken at this spot (second semester of the first year) such seminars will be charged against the free elective allowance.

The examination in English Bible, which is required of all students, will be taken in this term.

#### Second Year, First Term

**19. Introduction to New Testament Theology.**—A constructive analysis and exposition of the positive doctrinal content of the New Testament. Prerequisite: N.T. 18. 2 s.h. MR. YOUNG

**21. Introduction to the History of Christian Doctrine.**—The chief theological controversies, church creeds and confessions in the history of Christian thought from the anti-gnostic fathers to the year 1576. Prerequisite: C.T. 20. 2 s.h. MR. CUSHMAN

**23. Church Administration I.**—An introduction to the administrative and supervisory procedure essential in the total work of the church. 2 s.h.

MR. WALTON

**25. Educational Theory and Practice in the Church.**—An over-all and introductory view of the educational functions of the church. Consideration is given to the work of organization, administration and supervision of the church school. 2 s.h.

MR. SPENCE

**27. Christian Ethics I.**—The central assumptions and principles of the Christian conception of the good life. 3 s.h.

MR. BEACH

**29. Sermon Construction—Theory.**—An investigation of the theory of preaching. Prerequisite: Sp. 17 or 132. 2 s.h.

MR. CLELAND

Second Year, Second Term

**12. Psalms, Wisdom Literature, and the Problem of Theodicy.**—Prerequisite: O.T. 11. 2 s.h.

MR. STINESPRING

**14. History of the Reformation and Post-Reformation Church.**—Selected studies in the evangelical revival of Luther, Calvin, and the English Reformers, as related to the Catholic Counter-Reformation and the contemporary European Church. Prerequisite: C.H. 13. 2 s.h.

MR. PETRY

**24. Missions.**—The history and philosophy of the missionary enterprise. 2 s.h.

MR. CANNON

**26. Introduction to Pastoral Care.**—A study of the background, needs, and methods of pastoral work and counseling. 2 s.h.

MR. DICKS

**28. Movements in American Religious Thought.**—Beginning with the English Reformation, this course introduces the leading types of Protestantism transplanted to or developed within colonial America, primary emphasis being placed upon the dominant modes of Christian thought. 3 s.h.

MR. SMITH

**30. Sermon Construction—Practice.**—Continuation of Pr. 29. Detailed work in practice preaching and a clinical session each week on the application of theory. 2 s.h.

MR. CLELAND AND MR. RUDIN

## DISTRIBUTION OF COURSES BY YEARS

## First (Junior) Year

<i>First Term</i>	<i>Semester Hours</i>	<i>Second Term</i>	<i>Semester Hours</i>
11. Introduction to the Old Testament	4	18. Early Christian Life and Literature	4
13. History of Pre-Reformation Church	4	20. Introduction to Christian Theology	4
15. Living Religions	3	22. Psychology of Religion	3
17. Effective Speaking	2	English Bible Examination	0
*Free Elective (not over 3 s.h.)	3	*Free Elective (not over 3 s.h.)	3
	<hr/> 16	Field Work Seminar (For those doing field work)	1
			<hr/> 15

\* Language counts as free elective.



## DISTRIBUTION OF COURSES BY YEARS

## Second (Middle) Year

<i>First Term</i>	<i>Semester Hours</i>		<i>Second Term</i>	<i>Semester Hours</i>
23. Practical Theology (2)	4	[ Consolidated Course in Christian Leadership ]	24. Missions (2)	4
25. Religious Education (2)			26. Pastoral Care (2)	
27. Christian Ethics	3	(sequence course)	28. Movements in American Religious Thought	3
21. Introduction to the History of Christian Doctrine	2	(sequence course)	14. Reformation and Post-Reformation Church History	2
19. Introduction to New Testament Theology	2	(sequence course)	12. Psalms, Wisdom Literature, etc.	2
29. Sermon Construction—Theory	2	(sequence course)	30. Sermon Construction—Practice	2
*Free Elective (not over 3 s.h.)	3		*Free Elective (not over 3 s.h.)	3
	<hr/> 16			<hr/> 16

\* Language counts as free elective.

## SCHEDULE OF THE CORE CURRICULUM

## First Year—First Term

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30						
9:30		C. H. 13	C. H. 13	C. H. 13	C. H. 13	
10:30		Chapel	Chapel	Chapel	Chapel	
11:00		H. R. 15	Assembly	H. R. 15	H. R. 15	
12:00		O. T. 11	O. T. 11	O. T. 11	O. T. 11	
2:00		Speech 17		Speech 17		
Three additional hours may be scheduled as offered.						

## SCHEDULE OF THE CORE CURRICULUM

## First Year—Second Term

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30						
9:30		Theol. 20	Theol. 20	Theol. 20	Theol. 20	
10:30		Chapel	Chapel	Chapel	Chapel	
11:00		Psy. Rel. 22	Assembly	Psy. Rel. 22	Psy. Rel. 22	
12:00		N. T. 18	N. T. 18	N. T. 18	N. T. 18	
2:00		*Pract. Theol. 144	*Pract. Theol. 142			
Three additional hours may be scheduled as offered.						

\*Students doing any kind of field work will choose one of these seminars.

## SCHEDULE OF THE CORE CURRICULUM

### Second Year—First Term

[illegible]

## SCHEDULE OF THE CORE CURRICULUM

### Second Year—Second Term

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30						
9:30		Missions 24	Pastoral Care 26	Missions 24	Pastoral Care 26	
10:30		Chapel	Chapel	Chapel	Chapel	
11:00		Am. Rel. Tht. 28	Assembly	Am. Rel. Tht. 28	Am. Rel. Tht. 28	
12:00		O. T. 12	C. H. 14	O. T. 12	C. H. 14	
2:00		Preaching 30		Preaching 30		

Three additional hours may be scheduled as offered.

**Third (Senior) Year**

**VOCATIONAL GROUPS.** (One of these to be chosen by every B.D. candidate not later than end of Middle Year.)

**I. The Preaching Ministry and Pastoral Service**

In the third year, students electing Vocational Group I must take one course from each of the following fields, except in the case of those students who have previously elected these courses during the first two years:

Religious Education	Speech (for those found deficient in
Practical Theology	first course)
Pastoral Care	Philosophy of Religion

The student will also elect one Divisional Seminar from those to be offered in each of the four divisions of study (Biblical, historical, theological, practical). The seminar will carry credit of two or three hours, as may be determined by the divisional staff. Free electives in sufficient amount to complete 90 hours for graduation will be taken.

**II. Applied Christianity**

A. Religious Education. In the third year, students electing Vocational Group II must take the following courses, except in the case of those students who have previously elected these courses during the first two years:

Religious Education and Practical Theology (3 courses distributed between the two departments)

Psychology of Religion (1 course)

The student will also elect one Divisional Seminar from those to be offered in each of the four divisions of study (Biblical, historical, theological, practical). The seminar will carry credit of two or three hours, as may be determined by the divisional staff. Free electives in sufficient amount to complete 90 hours for graduation will be taken.

(Students planning to teach the Bible in public schools should elect some work in Bible.)

B. Missions.

C. Chaplaincy: Hospital or General.

D. Campus Religious Directors.

(These to be developed as called for.)

**III. Teaching and Research in Religion**

In the third year, those choosing Vocational Group III will take seven courses from the following:

American Religious Thought	Philosophy of Religion
Bible (may be language)	Psychology of Religion
Christian Ethics	Religious Education
Church History	Theology
History of Religions	

The student will also elect one Divisional Seminar from those to be offered in each of the four divisions of study (Biblical, historical, theological, practical). The seminar will carry credit of two or three hours, as may be determined by the divisional staff. Free electives in sufficient amount to complete 90 hours for graduation will be taken.

**ADMINISTERING THE NEW CURRICULUM**

For the administration of the new curriculum the following regulations have been adopted:

Full-time students will take the core required courses as specified for the respective semesters, being limited to the amount of free elective work indicated in each term. The only exceptions are as specified in the provision for languages.



Since the four-day-a-week schedule of required courses and the free week-ends have been planned with special reference to the needs of students holding pastoral charges, the limitation of 9 hours of class work has been changed to permit, but not require, such students to carry the total of hours of the core requirements for the first four semesters, but free electives may not be taken until all the core requirements have been fulfilled. A student who does not do creditable work will be required to reduce his schedule.

The status of "special student" may not be granted simply to permit avoidance of the schedule of core required courses. Every request for this classification will be carefully investigated and approval voted in each case by the curriculum committee in the cases of students already admitted to the Divinity School, and by the admissions committee in the case of applicants for admission as "special students."

Students working under the Duke Endowment, and others holding charges, are required to take one of the Field Work seminars. This work will be taken in the second semester of the first year. Unless taken at that spot, such seminars will be charged against the "free elective" allowance of later terms.

For a student taking both Greek and Hebrew, the Greek may be continued in the second year by postponing one or both of the 2-hour core courses in Old and New Testament. In such cases, the Hebrew will be the free elective in that year.

A part-time student who desires to begin the study of Greek in the first year may postpone the core required course in Old or New Testament.

The Registrar will make suitable entry on the permanent record of any student who is granted permission to deviate from the core requirements in the matter of language.

#### GRADING SYSTEM

Grades of Incomplete received at the end of the fall semester must be removed by the completion of the work of the course not later than March 15. Grades of Incomplete received at the end of the spring semester must be removed by October 1. If the work of the course is not completed by these dates, the grade shall be recorded as "F."

No student shall be permitted to drop a course after the expiration of one-third the period of instruction of the course without incurring failure except for causes adjudged by the dean to be beyond the student's control.

The grading system of the Divinity School employs the letters E, G, S, and F which have been defined in percentage equivalents as follows: E = 95-100; G = 85-94; S = 70-84; F = 69 and below. Plus and minus values are recognized as available in each category as: E-, E, E+; G-, G, G+; S-, S, S+; F-, F, F+. A student is expected to maintain an average of S.

### REQUIREMENTS FOR THE DEGREE OF MASTER OF RELIGIOUS EDUCATION

The course of study leading to this degree is designed to provide training primarily for individuals desiring to become educational assistants in churches or to engage in other forms of Christian education.

Candidates for this degree must hold the degree of A.B., based upon four years of work beyond secondary education, in a college which is approved by one of the regional accrediting bodies, or the equivalent of such a degree, and with academic and personal records which afford promise of competence in this area of service. The course of study will be especially useful for individuals who had one or more years of experience in religious education and desire further training. Candidates for this degree will be limited in number, and individuals interested are urged to apply for admission well in advance of the opening of the academic year. All work offered for this degree, whether in the regular year or in summer sessions, must be completed within a period of six years from the date of beginning. Only a limited amount of work may be taken in the Duke University Summer Session.

Certain prerequisite studies must have been taken by the candidate during the course of his academic training or must be secured, without credit toward the M.R.E. degree, after being admitted to the Divinity School. These are the following:

General Psychology	6 s.h.
Sociology	6 s.h.
Biblical Studies (including work in both the Old and the New Testament)	6 s.h.

Thirty semester hours of academic work are required for graduation. Eighteen of the semester hours must be in the following fields:

Religious Education	6 s.h.
Psychology of Religion	3 s.h.
Christian Ethics	3 s.h.
Biblical Studies	6 s.h.

The candidate must also engage in practice teaching in a church school or undertake some other approved project and must submit a written report covering his practical experience. This project work and report will be under the supervision of the Department of Religious Education.

## COURSES OF INSTRUCTION\*

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Odd numbers indicate fall semester courses; even numbers indicate spring semester courses. Required courses of the Core Curriculum are numbered from 11 to 99. Elective courses carrying credit in the Divinity School only are numbered from 101 to 199. Courses approved for credit in both the Divinity School and the Graduate School of Arts and Sciences are numbered above 200.

### I. DIVISION OF BIBLICAL STUDIES

#### OLD TESTAMENT

11. (Formerly 203.) **Introduction to the Old Testament.**—The origin, literary forms, and contents of the books of the Old Testament in their geographical and historical setting. 4 s.h. MR. STINESPRING

12. (Formerly 204.) **Psalms, Wisdom Literature, and the Problem of Theodicy.**—2 s.h. MR. STINESPRING

101. (Formerly 307.) **Syriac.**—A study of the script and grammar, with readings from the Syriac New Testament and other early Christian documents. Some knowledge of Hebrew and Aramaic prerequisite. 3 s.h. MR. STINESPRING  
[Not offered in 1949-1950]

201-202. **First Hebrew.**—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. 6 s.h. MR. STINESPRING

205-206. **Elementary Arabic.**—No prerequisite, but one year of Hebrew recommended as preparation. 6 s.h. MR. STINESPRING  
[Not offered in 1949-1950]

207-208. **Second Hebrew.**—Second Samuel the first semester and Second Isaiah the second semester. 6 s.h. MR. STINESPRING

301. **The Religious Thought of Post-Exilic Judaism.**—A study of the development of religious ideas in Post-Exilic Judaism. Prerequisite: O.T. 11. 3 s.h. MR. YOUNG

304. **Aramaic.**—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. 3 s.h. MR. STINESPRING  
[Not offered in 1949-1950]

305. **Third Hebrew.**—A study of the late Hebrew prose, with readings from Chronicles, Ecclesiastes, and the Mishnah. 3 s.h. MR. STINESPRING

309. **History of the Ancient Near East.**—A specialized study of the civilizations of Egypt, Palestine, Syria, and Mesopotamia from the standpoint of Biblical archaeology. 3 s.h. MR. STINESPRING  
[Not offered in 1949-1950]

310. **Old Testament Prophecy.**—A study of the ethical and religious teachings of the Old Testament with special reference to the prophets of the eighth century B.C. Prerequisite: O.T. 11. 3 s.h. MR. STINESPRING

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\* On recommendation of the Registrar, courses offered in the Graduate School of Arts and Sciences other than those approved for credit in the Divinity School may be approved for credit in individual cases, provided no equivalent course is offered in the Divinity School; each case to be decided on its merits.

**\*History of Art 215. Religious Art of the Ancient Near East.**—A specialized study of the development of art, particularly architecture and sculpture, as the material expression of religious ideas in Egypt, Mesopotamia, and in part Syria and Palestine to the Persian conquest. 3 s.h. MR. MARKMAN

**\*History of Art 216. Religious Art in the Classical World.**—A specialized study of the religious art, particularly architecture and sculpture, of Greece and Rome with special emphasis on the monuments in the Near East. 3 s.h.

MR. MARKMAN

#### NEW TESTAMENT

**18. (Formerly 213.) Early Christian Life and Literature.**—A basic study of the civilization in which Christianity began: the origin and development of the Christian Church and its literature through the second century. 4 s.h.

MR. CLARK

**19. (Formerly 214.) Introduction to New Testament Theology.**—A constructive analysis and exposition of the positive doctrinal content of the New Testament. Prerequisite: N.T. 18. 2 s.h.

MR. YOUNG

**103-104. (Formerly 211-212.) Hellenistic Greek.**—Designed for beginners to enable them to read the Greek New Testament. 6 s.h., provided the student takes two additional semester hours in New Testament Greek.

MR. YOUNG

**105. (Formerly 219.) Life of Paul.**—A study of Paul's life on the basis of Acts and the letters of Paul, emphasizing the permanent values in Paul's work and his contribution to the world. 3 s.h.

MR. MYERS

**109. (Formerly 216.) History of the English Bible.**—A general study of the history of the English version with comparison and evaluation of the numerous contemporary translations. This development will be illustrated from the Divinity School Bible collection, with access to and examination of the original editions. 3 s.h.

MR. CLARK

**217. The New Testament in Greek.**—Extensive reading of the Greek text of the New Testament with special emphasis upon its interpretation. Prerequisite: six semester hours' study of the Greek language. 2 s.h.

MR. CLARK

**218. Galatians and I Corinthians.**—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. Prerequisite: six semester hours' study of the Greek language. 2 s.h.

MR. CLARK

**220. I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. Prerequisite: six semester hours' study of the Greek language. 2 s.h.

MR. CLARK

[Not offered in 1949-1950]

**311. The Life and Teachings of Jesus.**—Prerequisite: N.T. 18. 3 s.h.

MR. CLARK

**312. Advanced New Testament Theology.**—An examination of the problems integral to the systematic interpretation of New Testament Theology with a critical evaluation of past and present representative investigations in this field. Prerequisite: N.T. 19. 3 s.h.

MR. YOUNG

**313. Apostolic Fathers.**—A study of the Christian development from Clement of Rome to Polycarp, with readings in the Greek text. Prerequisite: N.T. 18. 2 s.h.

MR. CLARK

**314. (Formerly 317.) Patristic Thought.**—A study of the development of early Christian doctrine to the period of Augustine. Prerequisite: N.T. 19. 3 s.h.

MR. YOUNG

\* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.



**316. Hellenistic Religions.**—A study of the Gentile religions in the Roman Empire, at the beginning of the Christian era. Prerequisite: N.T. 18. **3 s.h.**  
[Not offered in 1949-1950] MR. CLARK

**317. (Formerly 320.) The Synoptic Gospels.**—A detailed study of their characteristics and contents, with attention to their respective sources and to the development of synoptic criticism. Prerequisite: N.T. 18. **3 s.h.**  
MR. CLARK

**318. Text of New Testament.**—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. Prerequisite: N.T. 18 and a reading knowledge of Greek. **3 s.h.**  
[Not offered in 1949-1950] MR. CLARK

**319. Intellectual Environment of Early Christianity.**—A study of the classical ideas which dominated life in the Graeco-Roman world in the first three centuries A.D., with particular reference to their influence on Christian thought. Prerequisite: N.T. 19, or permission of the Instructor. **3 s.h.**  
MR. YOUNG

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**\*Greek 257.**—The social and cultural history of the Hellenistic world from Alexander to Augustus. **3 s.h.**  
MR. ROGERS

**\*Latin 258.**—The social and cultural history of the Graeco-Roman world. **3 s.h.**  
MR. ROGERS

## II. DIVISION OF HISTORICAL STUDIES

### HISTORY OF RELIGION AND MISSIONS

**15. (Formerly 281.) Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. **3 s.h.**  
MR. CANNON

**24. (Formerly 282.) Missions.**—The history and philosophy of the missionary enterprise. **2 s.h.**  
MR. CANNON

**108. (Formerly 284.) Comparative Religion I.**—The ideas of God, sin, and salvation in the religions of the world. Prerequisite: H.R. 15. **3 s.h.**  
[Not offered in 1949-1950] MR. CANNON

**110. (Formerly 286.) Comparative Religion II.**—Ideas of the future life and ethical and social ideals in the religions of the world. Prerequisite: H.R. 15. **3 s.h.**  
MR. CANNON

**112. (Formerly 288.) The Religions of India.**—A study of present-day religious movements in India, with special reference to Hinduism. **3 s.h.**  
[Not offered in 1949-1950] MR. CANNON

**113. (Formerly 283.) The Religions of the Far East.**—A study of the religious systems of China and Japan. **3 s.h.**  
[Not offered in 1949-1950] MR. CANNON

**115. (Formerly 289.) Buddhism.**—India at the rise of Buddhism. Life of the Buddha and the teachings of early Buddhism. Development into the Hinayana and Mahayana schools, its spread and present condition in southern and eastern Asia. Prerequisite: H.R. 15. **2 s.h.**  
MR. CANNON

**117. (Formerly 287.) Mohammedanism.**—The life of Mohammed and the religion of Islam, special attention being given to the Koran and its teachings. The aim is to interpret Mohammedanism as a force today. Prerequisite: H.R. 15. **2 s.h.**  
[Not offered in 1949-1950] MR. CANNON

\* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

## CHURCH HISTORY

13. (Formerly 233.) **History of the Pre-Reformation Church.**—A survey to the sixteenth century in terms of spiritual genius, organizational development, great literature, and representative movements. 4 s.h. MR. PETRY

14. (Formerly 234.) **History of the Reformation and Post-Reformation Church.**—Selected studies in the evangelical revival of Luther, Calvin, and the English Reformers, as related to the Catholic Counter-Reformation and the contemporary European church. 2 s.h. MR. PETRY

136. (Formerly 337.) **Pre-Reformation Preaching.**—Sermons, handbooks, and other historical sources studied in relation to Biblical preaching and the liturgical church, the problem of popular ministry and the issues of Christian reform. Prerequisite: C.H. 13. 2 s.h. MR. PETRY

137. (Formerly 336.) **Religious Leaders in Christian History.**—Representative leaders in the early and medieval church studied in relation to contemporary churchmanship. Prerequisite: C.H. 13. 2 s.h. MR. PETRY

139. (Formerly 339.) **Methodism.**—A study of Methodist societies in England and the developing church in America as they gave rise to such historic issues as polity, education, division, and reunion. Prerequisite: C.H. 13. 2 s.h. MR. PETRY

331. **The Social Message of the Early and Medieval Church.**—A study of the social teachings and contributions of the Christian Church prior to the Protestant Reformation. Prerequisite: C.H. 13 and 14. 3 s.h. MR. PETRY

332. **The Medieval Church.**—Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. Prerequisite: C.H. 13 and 14. 3 s.h. MR. PETRY  
[Not offered in 1949-1950]

334. **Church Reformers and Christian Unity.**—The work of such reformers as Marsilius of Padua, William of Ockham, John Gerson, Pierre d'Ailly, and Nicholas of Cusa in relation to ecclesiastical schism and the search for Christian unity through representative councils. Prerequisite: C.H. 13 and 14. 3 s.h. MR. PETRY

336. (Formerly 333.) **A History of Christian Renunciation in the Middle Ages.**—A study of the renunciatory ideal and of spiritual practices with special reference to Benedictines, Franciscans, Lowland mystics, and leading seculars. Prerequisite: C.H. 13 and 14. 3 s.h. MR. PETRY  
[Not offered in 1949-1950]

## AMERICAN RELIGIOUS THOUGHT

28. (Formerly 296.) **Movements in American Religious Thought.**—Beginning with the English Reformation, this course introduces the leading types of Protestantism transplanted to or developed within colonial America, primary emphasis being placed upon the dominant modes of Christian thought. 3 s.h. MR. SMITH

395. **Religious Thought in Colonial America.**—Examination of the principal types of Protestant thought in colonial culture. 3 s.h. MR. SMITH

396. **American Religious Thought in the Nineteenth Century.**—Comparative exposition of the chief cross-currents between Orthodoxy and Liberalism. 3 s.h. MR. SMITH

397. **Current American Religious Thought.**—Critical appraisal of conflicting modes in American theological thought. 3 s.h. MR. SMITH

398. **Modern American Christology.**—An analysis of the historical development of modern American conceptions of the person and work of Christ. A seminar for advanced students. 3 s.h. MR. SMITH  
[Not offered in 1949-1950]

**399. Social Thought in American Christianity.**—A study of Christian social thought in America since 1850. 3 s.h. MR. SMITH  
[Not offered in 1949-1950]

**495. Seminar: Jonathan Edwards and John Wesley.**—A comparative study of the major theological writings of Edwards and Wesley. 2 s.h. MR. SMITH

**496. Seminar: William James and John Dewey.**—A critical study of the philosophical and religious thought of James and Dewey. 2 s.h. MR. SMITH

### III. DIVISION OF THEOLOGICAL STUDIES

#### PHILOSOPHY OF RELIGION

**119. (Formerly 229.) Introduction to Philosophy of Religion.**—A general course: introduction to major philosophies of religion; relation to science, philosophy, art, morality, and tradition; criteria of validity, formulation of a philosophy of religion. 2 s.h. MR. BOSLEY  
[Not offered in 1949-1950]

**121. Philosophy of Contemporary Theism.**—A general course; the various forms of contemporary theism will be studied and evaluated. 2 s.h. MR. BOSLEY

**122. The Philosophy of Naturalistic Theism.**—A seminar; a study of the metaphysics, epistemology, logic, and theory of value of the most recent attempt to formulate a structure of Christian theism. Prerequisite: consent of instructor. 2 s.h. MR. BOSLEY  
[Not offered in 1949-1950]

**123. Theories of Value: A General Course.**—A comparative study of the major theories of value advanced in contemporary philosophy. 2 s.h. MR. BOSLEY

**124. The Philosophy of Personalism.**—A seminar; a study of the metaphysics, epistemology, logic, and theory of value of the personalist tradition in Christian thought. Prerequisite: consent of instructor. 2 s.h. MR. BOSLEY

**382. Religious Knowledge.**—A seminar; a critical investigation of the source, nature, and validity of religious knowledge involving reference to the relation of revelation to reason and scientific methodology in knowledge. Prerequisite: P.R. 119 or consent of instructor. 2 s.h. MR. BOSLEY

#### CHRISTIAN THEOLOGY

**20. (Formerly 221.) Introduction to Christian Theology.**—Contemporary theological tendencies, method and theory of knowledge, and introductory interpretation of the principal tenets of the Christian faith. 4 s.h. MR. CUSHMAN

**21. (Formerly 222.) Introduction to the History of Christian Doctrine.**—The chief theological controversies, church creeds and confessions in the history of Christian thought from the anti-gnostic fathers to the year 1576. Prerequisite: C.T. 20. 2 s.h. MR. CUSHMAN

**107. (Formerly 329.) The Person and Work of Christ.**—An intensive examination of classical types of christological and soteriological formulation in the history of Christian reflection, assessment and constructive position. Prerequisite: C.T. 20. 2 s.h. MR. CUSHMAN  
[Not offered in 1949-1950]

**224. (Formerly 323.) Conceptions of Man in Western Thought.**—Analysis and interpretation of representative types of theological and philosophical theory concerning man with attention to the import for Christian theism and theory knowledge. 3 s.h. MR. CUSHMAN  
[Not offered in 1949-1950]

**321. Platonism and Christianity.**—A seminar in Plato's religious philosophy and a survey of its continuing influence in Hellenistic and Christian thought. Prerequisite: permission of instructor. 3 s.h. MR. CUSHMAN

**322. Theology and Philosophy in the Nineteenth Century.**—A study of Protestant thought from Kant and Schleiermacher to Troeltsch together with representative British theologians, with attention to the reciprocal relations between theology and contemporary epistemology and metaphysics of the period. Prerequisite: C.T. 20. 3 s.h. MR. CUSHMAN

[Not offered in 1949-1950]

**325. Philosophical Theology I.**—Analysis and critique of dominant types of contemporary world-views for the formulation of the problem of philosophical theology together with main problems in the history of philosophical theology. Prerequisite: C.T. 20. 3 s.h. MR. CUSHMAN

**326. Philosophical Theology II.**—Historical and constructive approach to the function of faith and reason in the knowledge of God. 3 s.h. MR. CUSHMAN

**328. (Formerly 321B.) Seminar in Twentieth-Century Continental and British Theology.**—Critical examination of the thought of Barth, Brunner, Berdyaev, Maritain, F. R. Tennant, and William Temple. 3 s.h. MR. CUSHMAN

**329. Seminar in Historical Theology.**—Selected problems in the history of Christian doctrine. Prerequisite: C.T. 21. 3 s.h. MR. CUSHMAN

See also **New Testament 312.—Advanced New Testament Theology.**

#### CHRISTIAN ETHICS

**27. (Formerly 291.) Christian Ethics I.**—The central assumptions and principles of the Christian conception of the good life. 3 s.h. MR. BEACH

**114. (Formerly 292.) Christian Ethics II.**—The application of Christian ethics to life in modern society with particular emphasis on the ethical problems of the typical American community. Prerequisite: C.E. 27. 3 s.h. MR. BEACH

**391. Historical Types of Christian Ethics I.**—A critical study of representative documents of Christian ethical theory, up to the Reformation. Prerequisite: C.E. 27 or its equivalent. 3 s.h. MR. BEACH

**392. Historical Types of Christian Ethics II.**—A continuation of C.E. 391, covering the Reformation and current Christian ethical theory. Prerequisite: C.E. 391. 3 s.h. MR. BEACH

**393. The Christian Interpretation of History.**—A comparative examination of the chief secular and Christian theories of history current in Western thought. For advanced students. Prerequisite: C.E. 27. 3 s.h. MR. BEACH

**394. Christianity and the State.**—The relation of the Christian theory of the State to political problems with special consideration of the religious assumptions underlying democratic theory and practice. Prerequisite: C. E. 27. 3 s.h. MR. BEACH

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\*238. Race and Culture.

MR. THOMPSON

\*249. Child Welfare.

MR. JENSEN

\*250. Marriage and the Family.

MR. HART

\*276. Criminology.

MR. JENSEN

\*382. History of Sociological Theory.

MR. JENSEN

\* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity. For a description of the course, see the catalogue of the Graduate School.



**PSYCHOLOGY OF RELIGION**

22. (Formerly 271.) **Psychology of Religion.**—An analysis of the major factors in religious experience. 3 s.h. MR. HICKMAN

125. (Formerly 272.) **Advanced Psychology of Religion.**—An intensive study of the foundations and presuppositions of religious experience. 3 s.h. MR. HICKMAN

127. (Formerly 373.) **Psychology of Preaching.**—A psychological study of the preaching motive and preaching relationships. 2 s.h. MR. HICKMAN  
[Not offered in 1949-1950]

128. (Formerly 374.) **Pastoral Psychology.**—Study of psychological problems and principles involved in pastoral work. 2 s.h. MR. HICKMAN  
[Not offered in 1949-1950]

129. (Formerly 375.) **Genetic Psychology of Religion.**—A study of the religious experience of childhood and youth. 3 s.h. MR. HICKMAN

130. (Formerly 376.) **Studies in Mysticism.**—An examination of the mystical aspect of religious experience. 3 s.h. MR. HICKMAN

**IV. DIVISION OF PRACTICAL STUDIES**

The Core Curriculum sequence, Consolidated Course in Christian Leadership, comprises the following courses in the Division of Practical Studies, each of which is listed in its appropriate department:

**PT. 23. Church Administration I.**—2 s.h.

**R.E. 25. Educational Theory and Practice in the Church.**—2 s.h.

**H.R. 24. Missions.**—2 s.h.

**P.C. 26. Introduction to Pastoral Care.**—2 s.h.

**PRACTICAL THEOLOGY**

23. (Formerly 252.) **Church Administration I.**—An introduction to the administrative and supervisory procedure essential in the total work of the church. 2 s.h. MR. WALTON

142. (Formerly 253.) **Field Work I. General.**—A course designed to help with personal and parish problems, and the techniques of successful service. 1 s.h. (Note: All students engaged in any type of field work are required to take this course, or 144, Field Work II, or 146, Field Work III.) MR. WALTON

144. (Formerly 254.) **Field Work II—Rural.**—This course is designed to prepare students for work in rural churches. It emphasizes the training values in field work. 1 s.h. MR. WALTON

145. **Field Work III—Urban.**—This course is designed to prepare students for work in urban churches. It is planned to help the students fit into the urban situation and to gain the most from his field work. 1 s.h. MR. WALTON

146. **Church Administration II.**—This course considers the principles of program planning, policy development, and leadership enlistment and training in the church. 2 s.h. MR. WALTON

147. **The Urban Community and Its Church.**—A study of the urban community and the church in its midst. 2 s.h. MR. WALTON  
[Not offered in 1940-1950]

148. **Church Finance.**—A seminar to consider the principles of budget making, stewardship instruction, and every member enlistment in church support. 1 s.h. MR. WALTON

[Not offered in 1949-1950]

149. **Parish and Community Research and Analysis.**—A seminar to consider the techniques of community surveys, research, and analysis. Attention is given to the use of research data in program planning and in checking on the effectiveness of church work. 1 s.h. MR. WALTON

150. **The Rural Pastor and His Work.**—A study of the qualifications of the rural pastor and his task. Attention is given to the supervisory methods and materials available for the pastor's use. 2 s.h. MR. WALTON  
[Not offered in 1949-1950]

151. (Formerly 353.) **The Rural Church.**—A study of rural conditions and the place of the church as a community institution. 2 s.h. MR. WALTON

152. (Formerly 354.) **Parish Evangelism.**—A study seeking to prepare the student to plan a comprehensive and continuous program of evangelism for the local church. 2 s.h. MR. WALTON

153. **Church Management and Supervision.**—A seminar to consider problems and situations met in local church management and supervision. 1 s.h. MR. WALTON  
[Not offered in 1949-1950]

154. (Formerly 356.) **The Urban Church.**—A study of the functions of the church in towns and cities with special attention to changing city conditions. 2 s.h. MR. WALTON  
[Not offered in 1949-1950]

155. (Formerly 357.) **Church Polity: Comparative and Denominational.**—This is a study of the polity of the different denominations in which the students may serve, based upon the disciplines and practices of the respective denominations. 2 s.h. MR. WALTON AND OTHERS

(The plan of this course is for the class to meet as a unit one hour a week for the study of the common interests of the denominations; for the other hour the class is divided into groups on the following plan:

- a. **The Polity of the Methodist Church.**—The study will be based upon the Methodist Discipline.
- b. **The Polity of the Baptist Churches.**
- c. **The Polity of the Congregational-Christian Churches.**
- d. **The Polity of the Presbyterian Churches.**

Courses in the polity of other churches will be arranged as needed.)

157. **Rural Community and Church Trends.**—A seminar to evaluate the current trends in rural life and their influence upon church work. 1 s.h. MR. WALTON  
[Not offered in 1949-1950]

#### RELIGIOUS EDUCATION

25. (Formerly 261.) **Educational Theory and Practice in the Church.**—An over-all and introductory view of the educational functions of the church. Consideration is given to the work of organization, administration and supervision of the church school. 2 s.h. MR. SPENCE

161. **Theories, Types and Techniques of Teaching.**—A study of the main principles underlying religious teaching with an examination of the different methods of teaching. 2 s.h. MR. SPENCE

162. (Formerly 262.) **Methods and Materials of Religious Education.**—A consideration of the principal administrative problems of the church school, of the various concepts of the curriculum, and an examination of existing curricula, their nature, use and value. 3 s.h. MR. SPENCE

163. (Formerly 363.) **Worship and Drama.**—Worship in its bearings upon the educational functions of the Christian religion. The use of drama in religious education with the creation of dramatic programs of worship and drama writing and production. 3 s.h. MR. SPENCE

164. **Religious Education of Children and Adolescents.**—The course will consider religious education of children and youth on the various age levels from the nursery school through high school. 2 s.h. MR. SPENCE  
[Not offered in 1949-1950]

**166. Religious Education of Young People and Adults.**—This course will be concerned with a study of young people as well as mature persons from a standpoint of meeting their needs and continuing their religious development. **2 s.h.** MR. SPENCE

**168. (Formerly 366.) The Educational and Spiritual Values of Great Literature.**—A study of Biblical and other great literature from the standpoint of their teaching values; analysis of material with reference to needs, interests, and capacities of various age groups. Correlation of Biblical and extra-Biblical material with a view to its adaptability for teaching and preaching purposes. **3 s.h.** MR. SPENCE

**365. History of Religious Education in Modern Times.**—A critical study of the historical movements in religious education since the Reformation with special consideration of the American development. **3 s.h.** MR. SPENCE  
[Not offered in 1949-1950]

**368. Theories of Religious Education.**—A critical investigation of current theories of Religious Education. **3 s.h.** MR. SPENCE  
[Not offered in 1949-1950]

#### PASTORAL CARE

**26. (Formerly 251.) Introduction to Pastoral Care.**—A study of the background, needs and methods of pastoral work and personal counseling. Second semester. **2 s.h.** MR. DICKS

**171. (Formerly 255.) Pastoral Care Practicum I.**—A study of pastoral calls and interviews. Particularly for students serving churches or working in clinical situations. Prerequisite: P.C. 26 or consent of instructor. **2 s.h.** MR. DICKS

**172. (Formerly 256.) Pastoral Care Practicum II.**—Advanced pastoral care for students serving churches or working in clinical situations. Prerequisite: P.C. 26 or P.C. 171. **2 s.h.** MR. DICKS

**173. Religion and Health.**—The study of the relation of body and mind and of the religious resources for health through counseling and worship. Prerequisite: P.C. 26 or consent of instructor. **2 s.h.** MR. DICKS  
[Not offered in 1949-1950]

**174. Personal Counseling.**—A study of formal personal counseling for those going into the ministry, religious education, and work with college students. **2 s.h.** MR. DICKS

**175. (Formerly 351.) The Literature of Pastoral Care.**—Directed reading and seminar discussion of writings in the field of psychiatry, psychology, sociology, social work, the ministry, and other fields as they relate to pastoral care. Prerequisite: consent of instructor. **2 s.h.** MR. DICKS

**176. Pastoral Care and Social Work.**—Lectures by various specialists and visits to social agencies to orient the minister in relation to other specialists working with individuals and to familiarize him with social service resources. Prerequisite: P.C. or consent of instructor. **2 s.h.** MR. DICKS  
[Not offered in 1949-1950]

**177. Advanced Seminar in Pastoral Care.**—For students preparing for full time pastoral ministry, hospital chaplaincy, industrial chaplaincy, ministry to older people, or work with young people. Practicum. Prerequisite: P.C. 26 or consent of instructor. Offered each semester. **2 s.h.** MR. DICKS

#### PREACHING

**29. (Formerly 243.) Sermon Construction—Theory.**—An investigation of the theory of preaching. Prerequisite: Sp. 17 or 132. **2 s.h.** MR. CLELAND

**30. (Formerly 243.) Sermon Construction—Practice.**—Continuation of 29. Detailed work in practice preaching, and a clinical session each week on the application of theory. **2 s.h.** MR. CLELAND AND MR. RUDIN

181. (Formerly 244.) **Practical Problems in Preaching.**—Analysis of selected sermons and discussion of problems facing the preacher in the pulpit. Prerequisite: Pr. 29 and 30. 2 s.h. MR. CLELAND  
[Not offered in 1949-1950]

183. (Formerly 346.) **Materials of Preaching—Biblical.**—The problem of authority in the Bible and an evaluation of selected portions of the Bible for present-day preaching. 2 s.h. MR. CLELAND

185. (Formerly 348.) **Materials of Preaching—Non-Biblical.**—An evaluation of great literature—drama, poetry, biography, fiction—from the point of view of its value for modern preaching. 2 s.h. MR. CLELAND  
[Not offered in 1949-1950]

See also: C.H. 136. **Pre-Reformation Preaching.**  
Psy.R. 127. **Psychology of Preaching.**

#### PUBLIC WORSHIP

178. (Formerly 355.) **Public Worship.**—The theory and practice of the worship of the Church: an analysis of the rites and ceremonies in "The Book of Worship." 3 s.h. MR. CLELAND AND MR. RUDIN

180. (Formerly 358.) **Church Music.**—A study of hymnology, song leading, and problems of the modern church choir. 2 s.h. MR. BARNES

#### SPEECH

17. (Formerly 241.) **Effective Speaking.**—Fundamentals of preparation and delivery to develop effectiveness in private and public speech. Individual conferences. (Students electing Vocational Group I will, upon recommendation of the instructor, take Speech 132 also.) 2 s.h. MR. RUDIN

132. (Formerly 242.) **Public Speaking.**—Composition and delivery, based upon individual needs. Selection and arrangement of materials, principles of persuasion, intensive practice in delivery. Individual conferences. 2 s.h. MR. RUDIN

(For the academic years, 1949-50 and 1950-51, students who have not taken Speech 17 will satisfy the requirement in Speech by taking this course.)

134. (Formerly 246.) **Oral Interpretation of Literature.**—A course for advanced students designed to develop effectiveness in interpreting the Bible and other commonly used materials of public worship. Individual conferences and drill sections to be arranged. Prerequisite: Speech 17. 2 s.h. MR. RUDIN  
[Not offered in 1949-50]



## CANDIDATES FOR THE DEGREE OF BACHELOR OF DIVINITY JUNIOR CLASS

Alspaugh, Carlton Gaither, Jr. A.B., High Point College, 1948.	Winston-Salem, N. C.
Anderson, James Harold A.B., Wake Forest College, 1946.	Mars Hill, N. C.
Andrews, James David B.S., University of North Carolina, 1947.	Goldsboro, N. C.
Antle, Ben Edward A.B., DePauw University, 1948.	Elkhart, Ind.
Austin, Harold Covington A.B., High Point College, 1948.	High Point, N. C.
Barlow, Hubert Lee A.B., Millsaps College, 1949.	Wesson, Miss.
Beane, Kenneth Eugene A.B., High Point College, 1948.	Siler City, N. C.
Burnside, Dunklin Sullivan, Jr. A.B., Wofford College, 1947.	Spartanburg, S. C.
Caldwell, Ralph Martin, Jr. B.S., Davidson College, 1948.	Spartanburg, S. C.
Carpenter, James Anderson A.B., Wofford College, 1948.	Shelby, N. C.
Casey, Joseph Howard A.B., Harvard College, 1948.	Lumberport, W. Va.
Chang, Timothy B.S., Fukien Christian University, 1946.	Fukien, Shaowu, China
Christenberry, Daniel K., Jr. B.S., Alabama Polytechnic Institute, 1941.	Stewart, Ala.
Crawley, Robert Pinckney B.A., University of North Carolina, 1948.	Statesville, N. C.
Davidson, Barney Lee B.S., West Texas State Teachers College, 1948.	Kelton, Tex.
Davis, Herman Fred A.B., Wofford College, 1948.	Carthage, N. C.
Dawsey, Cyrus Bassett A.B., Wofford College, 1949.	Madison, Fla.
Donahoe, Joseph Stephen A.B., Lynchburg College, 1947.	Onley, Va.
Edwards, Otis Carl, Jr. A.B., Centenary College, 1949.	Shreveport, La.
Esthus, Raymond Arthur A.B., Florida Southern College, 1948.	Sarasota, Fla.
Fogleman, Clarence Millard, Jr. A.B., Kansas Wesleyan University, 1948.	Burlington, N. C.
Gatlin, Curtis Robert B.S., Newberry College, 1946.	Newberry, S. C.
Golden, Jacob Bowles A.B., Lenoir-Rhyne College, 1948.	Hickory, N. C.
Groves, David Clayton A.B., Florida Southern College, 1948.	Jacksonville, Fla.

- Henley, George Gray  
A.B., Hampden-Sydney College, 1948.
- House, Thomas Holmes  
A.B., Evansville College, 1936.
- Klein, Ernest Charles  
A.B., Franklin and Marshall College, 1949.
- Lightsey, Ralph  
A.B., Mercer University, 1945.
- Little, Brooks Bivens  
A.B., Duke University, 1941.
- Lockhart, Joyce Gwendolyn  
A.B., Berea College, 1948.
- Menerth, Edward Franklin  
A.B., Duke University, 1948.
- Mickey, John Speer  
A.B., High Point College, 1947.
- Moore, Joseph Charles  
A.B., Dickinson College, 1948.
- Moore, Kenneth R.  
A.B., High Point College, 1948.
- Moore, Robert Freeman  
A.B., Shepherd College, 1948.
- Moose, James Lois Walter  
A.B., Wake Forest College, 1947.
- Mote, John Anson  
A.B., Western Maryland College, 1945.
- Page, Ernest Dillard  
A.B., High Point College, 1947.
- Park, Marvin Ross, Jr.  
A.B., University of Alabama, 1946.
- Payne, Don Aubrey  
A.B., High Point College, 1945.
- Pemberton, John, III  
A.B., Princeton University, 1948.
- Peters, Gervaise Francis  
A.B., Ohio Wesleyan University, 1948.
- Potts, Reginald Harrell  
A.B., Lake Forest College (Ill.), 1948.
- Ramsey, Vernon Jerome  
A.B., Catawba College, 1948.
- Raper, Burkette  
A.B., Duke University, 1947.
- Sawyer, Thomas Benjamin  
A.B., Duke University, 1938.
- Sherman, Willard Barton  
A.B., Duke University, 1947.
- Smith, William Poole  
A.B., Wake Forest College, 1946.
- Speer, Jack Gordon  
A.B., Morningside College, 1948.
- Squires, Donal Morley  
A.B., Fairmont State College, 1948.
- Statler, Earl Gladish  
A.B., Southeast Missouri State College, 1948.
- Flint Hill, Va.
- St. Pauls, N. C.
- Cullman, Ala.
- Bristol, Ga.
- Durham, N. C.
- Berea, Ky.
- Mountainside, N. J.
- Mount Airy, N. C.
- Mill Hall, Pa.
- Charlotte, N. C.
- Martinsburg, W. Va.
- Statesville, N. C.
- Redlands, Calif.
- Greensboro, N. C.
- Ralph, Ala.
- High Point, N. C.
- Cape May, N. J.
- Ashville, Ohio
- Wilmette, Ill.
- Salisbury, N. C.
- Middlesex, N. C.
- Greensboro, N. C.
- Leander, Tex.
- Burlington, N. C.
- Sioux City, Iowa
- Fairmont, W. Va.
- Millersville, Mo.

Sutton, David Earl A.B., Duke University, 1948.	Durham, N. C.
Swain, David Lowry A.B., Duke University, 1948.	Asheville, N. C.
Warren, George B. A.B., Duke University, 1948.	Orlando, Fla.
Welch, Malchus V. A.B., Elon College, 1947.	Elon College, N. C.
Williams, Clarence Daniel A.B., Davidson College, 1948.	Tatum, S. C.
Wilson, Alvin Austin A.B., University of North Carolina, 1947.	Newton, N. C.
Wilson, Kelly Johnson, Jr. A.B., Duke University, 1948.	Carthage, Tenn.
Winegeart, Jack Stroud A.B., Centenary College, 1948.	Shreveport, La.
Woodruff, Robert Thomson, Jr. A.B., Carson-Newman College, 1948.	Jefferson City, Tenn.
Youngblood, William Lee A.B., Millsaps College, 1948.	Wesson, Miss.

## MIDDLE CLASS

Bedenbaugh, Kenneth Wilson B.S., Wofford College, 1940.	Chesterfield, S. C.
Blake, Frank William A.B., West Virginia Wesleyan, 1942.	Milton, W. Va.
Brown, James Collins Parker A.B., High Point College, 1948.	Lasker, N. C.
Burgess, Stanley Clyde A.B., Elon College, 1947.	Courtland, Va.
Cansler, James Olin B.S., University of North Carolina, 1947.	Atlanta, Ga.
Carlton, John William A.B., Baylor University, 1945.	Corpus Christi, Tex.
Carroll, C. Edward A.B., University of Toledo, 1947.	Toledo, Ohio
Charlton, David Wayland, Jr. A.B., Randolph-Macon College, 1947.	Manteo, N. C.
Commander, Richard Thompson B.S., Alabama Polytechnic Institute, 1947.	Jacksonville, Fla.
Cook, Frank B. A.B., Vanderbilt University, 1947.	Huntsville, Ala.
Crouse, Kenneth Dewey A.B., High Point College, 1943.	Lexington, N. C.
Davis, John Dixon A.B., Wake Forest College, 1947.	Beaufort, N. C.
Donat, Ward Linn A.B., Upper Iowa University, 1947.	Norfolk, Va.
Fisher, Marion LeRoy, Jr. B.S., Defiance College, 1947.	Defiance, Ohio
Fitzgerald, Ernest A. A.B., Western Carolina Teachers College, 1946.	Mocksville, N. C.
Grumbine, Robert A.B., Western Maryland College, 1947.	Baltimore, Md.

Hamilton, Harold Philip A.B., High Point College, 1947.	Thomasville, N. C.
Hurdle, Allen Lafayette A.B., Elon College, 1947.	Burlington, N. C.
Kinley, Grady Lee A.B., Wofford College, 1947.	Mebane, N. C.
Langrall, Edwin Hilmore A.B., Western Maryland College, 1947.	Washington, D. C.
McGlamery, Neal Vannoy B.S., Berry College, 1939.	Mt. Pleasant, N. C.
Mallary, Martha Bayne A.B., University of North Carolina, 1946.	Macon, Ga.
Mays, Harry Roy B.C.E., Clemson A. and M. College, 1947.	Columbia, S. C.
Merriman, William Richard A.B., Western Maryland College, 1947.	Frostburg, Md.
Miller, James Herbert, Jr. A.B., Duke University, 1947.	Elizabeth City, N. C.
Miller, Ralph A.B., West Virginia University, 1946.	Pewaukee, Wis.
Pearce, Arthur B., Jr. A.B., Asbury College, 1935.	Greensboro, N. C.
Register, Fred Page A.B., Elon College, 1947.	Sanford, N. C.
Reid, Dermont James A.B., Elon College, 1947.	Burlington, N. C.
Richardson, John Earl A.B., High Point College, 1948.	Eagle Springs, N. C.
Snyder, Walstein Welch A.B., Elon College, 1945.	Burlington, N. C.
Walton, William Carlisle, Jr. A.B., Maryville College, 1941.	Durham, N. C.
Warren, Clarence Lee A.B., High Point College, 1947.	Clinton, N. C.
Withrow, Carlos Quentin B.Th., Anderson College, 1947.	Charleston, W. Va.

## SENIOR CLASS

Babington, Wallace Kent A.B., Centenary College, 1946.	New Orleans, La.
Boggs, Clyde Stewart A.B., Kentucky Wesleyan College, 1930.	Durham, N. C.
Brown, Jarvis Padgham A.B., Trinity College, Hartford, 1943.	Portland, Ore.
Carroll, Kenneth Lane A.B., Duke University, 1946.	Easton, Md.
Dinas, Johnny Anastatious B.S., Mississippi State College, 1943.	Durant, Miss.
Duncan, Henry Clark A.B., Drury College, 1946.	Springfield, Mo.
Epps, Ralph Isaac A.B., Wofford College, 1942.	Sumter, S. C.
Farrell, Earl Thompson A.B., Elon College, 1944.	Pittsboro, N. C.



Fellows, Norris London A.B., Drury College, 1946.	Springfield, Mo.
Ford, Jesse Emerson, Jr. A.B., Wofford College, 1941.	Marion, S. C.
Forshee, James Woodrow A.B., Birmingham-Southern College, 1942.	Sylacauga, Ala.
Frazier, John Thurman, Jr. A.B., Furman University, 1941.	Rock Hill, S. C.
Glover, Murrell Keslo A.B., Bridgewater College, 1933.	Accident, Md.
Gough, Louis Francis A.B., B.S., Anderson College and Theological Seminary, 1946.	High Point, N. C.
Griffin, Johnson Linwood A.B., Elon College, 1943.	Windsor, Va.
Hipps, Robert Haroldean A.B., High Point College, 1946.	Gastonia, N. C.
Hirschi, Carlton Frederick A.B., Allegheny College, 1945.	Woodhaven, N. Y.
Hook, Ray Price A.B., Wofford College, 1941.	Lexington, S. C.
Hornbuckle, James P., Jr. A.B., Lenoir-Rhyne College, 1941.	Stony Point, N. C.
Horner, Thomas Marland A.B., Elon College, 1946.	New Bern, N. C.
Hudnall, Michael Benjamin A.B., Clemson College, 1943.	Sumter, S. C.
Huneycutt, Charles Jerome A.B., Appalachian State Teachers College, 1940.	Morehead City, N. C.
James, Howard Glenn A.B., Atlantic Christian College, 1944.	Winterville, N. C.
Johnson, Joseph S. A.B., High Point College, 1944.	Lake Junaluska, N. C.
Knight, Calvin S. A.B., Wake Forest College, 1945.	Leaksville, N. C.
Lanier, Hoyle Glenn A.B., High Point College, 1945.	Lexington, N. C.
McCartt, James Spurgeon A.B., Tusculum College, 1947.	Harriman, Tenn.
Mattheiss, Theodore Henry, Jr. A.B., Johns Hopkins University, 1941.	Baltimore, Md.
Morton, Vernon Adam A.B., High Point College, 1931.	Jamestown, N. C.
Murray, Jerry Dwight A.B., Duke University, 1946.	Charlotte, N. C.
Patten, Brooks A.B., University of North Carolina, 1939.	Louisburg, N. C.
Paylor, Earle Whitaker, Jr. A.B., University of South Carolina, 1945.	Danville, Va.
Porter, Joseph E. A.B., Duke University, 1942.	Durham, N. C.
Rowland, Ray Marion A.B., East Tennessee State College, 1943.	Jonesboro, Tenn.
Royal, James Peyton A.B., Wake Forest College, 1945.	Parkersburg, N. C.

Rucker, Driftwood Hayne A.B., Wofford College, 1943.	Cayce, S. C.
Scoggins, Eugene King A.B., Wofford College, 1944.	Olanta, S. C.
Siple, Clair Dwight A.B., Manchester College, 1946.	Argos, Ind.
Spivey, Wingate Bryant A.B., Furman University, 1944.	Simpsonville, S. C.
Turner, James Dixon A.B., Asbury College, 1945.	Reidsville, N. C.
VanHoy, William Ford, Jr. A.B., Guilford College, 1939.	Yadkinville, N. C.
Walton, Charles Harmon A.B., Randolph-Macon College, 1946.	Clifton Forge, Va.
Wells, William Miles, Jr. A.B., Duke University, 1945.	Wilson, N. C.

#### CANDIDATES FOR THE DEGREE OF MASTER OF RELIGIOUS EDUCATION

Bailey, Ruby May A.B., University of Chattanooga, 1931.	Charlotte, N. C.
Box, Hazel Melvin A.B., Greensboro College, 1947.	Aberdeen, N. C.
Brown, Charlotte Churchill A.B., High Point College, 1948.	Cranford, N. J.
Marrotte, Esther Pierce A.B., University of New Hampshire, ??-?	Brooklyn, Conn.
Swofford, Betty Hazel A.B., Greensboro College, 1948.	Walkertown, N. C.
Wang, Yien-pei A.B., Gingling College, 1929.	Nanchang, China

#### SPECIAL STUDENTS

Hundley, Maury, Jr. A.B., Lynchburg College, 1938.	Dunnsville, Va.
Hutchins, Charles Douglas	Norfolk, Va.
Ivie, William Kemp A.B., University of Oklahoma, 1931.	Durham, N. C.
Johnson, Emma Bryan A.B., Flora Macdonald College, 1937.	Clinton, N. C.
Taylor, Benjamin Eugene A.B., Atlantic Christian College, 1935; B.D., Vanderbilt University, 1946.	Durham, N. C.
Wang, Yao Ying A.B., University of Nanking, 1932.	Nanchang, China
Warren, Emily T.	Durham, N. C.

#### CANDIDATES FOR THE DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY IN RELIGION

(Registered in Graduate School of Arts and Sciences)  
(1948-49)

(1) Regular Session	
Agouridis, Savas Christos Diploma, University of Athens, 1943.	Athens, Greece
Andrews, Edwin R. A.B., Wake Forest College, 1942; B.D., Southern Baptist Seminary, 1946.	Raleigh, N. C.

- Bellamy, Virginia Nelle  
B.S., East Tennessee State College, 1945.      Roda, Va.
- Gibbs, Norman B.  
A.B., Southwestern at Memphis, 1932;  
B.D., Louisville Presbyterian Theological Seminary, 1935.      Keatchie, La.
- Gitlin, Emmanuel M.  
A.B., Texas Christian University, 1944;  
B.D., Duke Divinity School, 1946.      Zdolbunov, Poland
- Hamrick, Emmett W.  
A.B., University of North Carolina, 1946.      Shelby, N. C.
- Holt, Robert L.  
A.B., Wake Forest College, 1943;  
A.M., Wake Forest College, 1946.      Durham, N. C.
- Huston, Hollis W.  
A.B., Williamette University, 1944;  
B.D., Duke Divinity School, 1947.      Salem, Ore.
- Meredith, McLaurin M.  
B.S., Southwestern University, 1945;  
B.D., Duke Divinity School, 1948.      Dallas, Tex.
- Newberry, Gene Wilson  
A.B., Denison University, 1937;  
B.D., Oberlin Graduate School of Theology, 1945.      New Boston, Ohio
- Poteat, William H.  
A.B., Oberlin College, 1941.  
B.D., Yale Divinity School, 1944.      Kaifeng, China
- Rainwater, Roland W.  
A.B., Wofford College, 1940;  
B.D., Duke Divinity School, 1943.      Roberdell, N. C.
- Sales, Reames Hawthorne  
A.B., Hendrix College, 1942;  
B.D., Duke Divinity School, 1946.      Forest City, Ark.
- Shealy, Charles, Jr.  
A.B., Newberry College, 1940;  
B.D., Lutheran Theological Southern Seminary, 1943.      Prosperity, S. C.
- Smith, Kenneth L.  
A.B., University of Richmond, 1945;  
B.D., Crozer Theological Seminary, 1948.      Exmore, Va.
- Waggoner, Brooks M.  
A.B., University of Arkansas, 1938;  
B.D., Duke Divinity School, 1941;  
A.M., Duke University, 1943.      Stillwell, Ohio
- Wethington, Lewis Elbert  
A.B., Wake Forest College, 1944;  
B.D., Duke Divinity School, 1947.      Durham, N. C.
- Wiles, Charles Preston  
A.B., Washington College, 1939;  
A.M., Duke University, 1945;  
B.D., Virginia Theological Seminary, 1947.      New Market, Md.
- Workman, George  
A.B., Hobart College, 1941;  
B.D., Virginia Theological Seminary, 1943.      Oswego, N. Y.
- (2) Summer Session
- Curry, Roy Watson  
A.B., Marshall College, 1938;  
M.A., West Virginia University, 1940.      Bayard, W. Va.
- Denman, Sidney Brunson  
A.B., Mississippi College, 1947.      Charleston, Miss.

- |   |                   |
|---|-------------------|
| Hamrick, Emmett W.<br>A.B., University of North Carolina, 1946.   | Shelby, N. C.     |
| Lane, Benjamin W.<br>A.B., Tarkio College, 1942;<br>B.D., Louisville Presbyterian Theological Seminary, 1945. | Tarkio, Mo.       |
| Pruette, Rowland S.<br>A.B., Wake Forest College, 1943;<br>B.D., Duke Divinity School, 1947.                  | Wadesboro, N. C.  |
| McKorrell, Mary Bowers<br>A.B., Randolph-Macon College, 1925.   | Charlotte, N. C.  |
| Southerland, Myre Azalem<br>A.B., East Carolina Teachers College, 1941.                                       | Wilmington, N. C. |



## ENROLLMENT STATISTICS

Regular academic session, 1948-49:

Candidates for the B.D. degree	
Juniors .....	61
Middlers .....	34
Seniors .....	43
Candidates for the M.R.E. degree .....	6
Special students .....	7
Total .....	151
Candidates for the A.M. and Ph.D. degrees in Religion .....	19

Summer Session, 1948:

Candidates for the B.D. degree .....	28
Candidates for the A.M. and Ph.D. degree in Religion .....	7

### DISTRIBUTION BY STATES

Alabama .....	5	New York .....	1
California .....	1	North Carolina .....	64
Connecticut .....	1	Ohio .....	2
District of Columbia .....	1	Oregon .....	1
Florida .....	5	Pennsylvania .....	1
Georgia .....	3	South Carolina .....	14
Illinois .....	1	Tennessee .....	3
Indiana .....	2	Texas .....	2
Iowa .....	1	Virginia .....	8
Kentucky .....	1	West Virginia .....	4
Louisiana .....	3	Wisconsin .....	1
Maryland .....	5		
Mississippi .....	3	Number of states .....	26
Missouri .....	3	Foreign Countries:	
New Jersey .....	2	China .....	3

### DISTRIBUTION BY COLLEGES AND UNIVERSITIES

Alabama Polytechnic Institute ....	2	Fairmont State College .....	1
Allegheny C. and U. ....	1	Flora Macdonald College .....	1
Anderson College .....	2	Florida Southern College .....	1
Appalachian State Teachers College	1	Franklin and Marshall College ....	1
Asbury College .....	2	Fukien Christian University	
Atlantic Christian College .....	1	(China) .....	1
Baylor University .....	1	Furman University .....	2
Berea College .....	1	Ginling College (China) .....	1
Berry College .....	1	Greensboro College .....	2
Birmingham-Southern College ....	1	Guilford College .....	1
Bridgewater College .....	1	Hampden-Sydney College .....	1
Catawba College .....	1	Harvard University .....	1
Centenary College of Louisiana ....	3	High Point College .....	17
Clemson A. and M. College .....	2	Johns Hopkins University .....	1
Davidson College .....	2	Kansas Wesleyan University .....	1
Defiance College .....	1	Kentucky Wesleyan College .....	1
DePauw University .....	1	Lake Forest College .....	1
Dickinson College .....	1	Lenoir-Rhyne College .....	2
Drury College .....	2	Lynchburg College .....	2
Duke University .....	12	Manchester College .....	1
East Tennessee State College ....	1	Maryville College .....	1
Elon College .....	8	Mercer University .....	1
Evansville College .....	1	Millsaps College .....	2

Mississippi State College .....	1	University of New Hampshire ....	1
Morningside College .....	1	University of North Carolina .....	5
Newberry College .....	1	University of Oklahoma .....	1
Ohio Wesleyan University .....	1	University of South Carolina .....	1
Princeton University .....	1	Upper Iowa University .....	1
Randolph-Macon College .....	2	Vanderbilt University .....	1
Shepherd College .....	1	Wake Forest College .....	6
Southeast Missouri State College ..	1	Western Carolina Teachers College	1
Trinity College (Connecticut) ....	1	Western Maryland College .....	4
Tusculum College .....	1	West Texas State College .....	1
University of Alabama .....	1	West Virginia University .....	1
University of Chattanooga .....	1	Wofford College .....	11
University of Nanchang (China) ..	1		

### DEGREES CONFERRED IN 1948

#### BACHELOR OF DIVINITY

Adams, Gilreath Gilderoy, Jr.	Hartz, John Leslie
Andes, Mark Winston	Kirchgessner, Robert Frank
Aycock, Johnnie Dolphus	McDonald, Walter Neill
Bailey, Amos Purnell	Meredith, McLaurin Mayers
Barrett, Troy James	Nease, Edgar Harrison, Jr.
Brinson, John Clinton	Reynolds, James William, Jr.
Bull, William Floyd	Robinson, Milton Harvey
Burgin, William Grady	Rumbley, George McClellan
Carter, John William	Seals, Daniel Hilton
Collins, Clyde Louis	Short, Raymond Everett
Combs, William Price	Stone, Joseph Leslie
Dunn, Van Bogard	Thomas, Kenneth Maxwell
Flynn, Donald Luther	Villines, Floyd Galloway, Jr.
Hamilton, Ensley Paul	Winberry, Herman Stanford
Harbin, Melton Edward	

#### MASTER OF RELIGIOUS EDUCATION

Board, Barbara Ann	Edens, Allan Cleveland, Jr.
Chunn, Effygene	

### GRADUATE DEGREES CONFERRED, 1948

#### MASTER OF ARTS DEGREE IN RELIGION

Failing, George Edgar











VOLUME 21

June, 1949

NUMBER 8

# BULLETIN OF DUKE UNIVERSITY

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*Catalogue Number*



1948-1949

ANNOUNCEMENTS FOR 1949-1950

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE COLLEGE OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

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For BULLETIN OF THE SUMMER SESSION, apply to *The Director of the Summer Session*, Duke University, Durham, N. C.

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OF  
DUKE UNIVERSITY



CATALOGUE NUMBER

1948-1949

ANNOUNCEMENTS FOR 1949-1950

DURHAM, NORTH CAROLINA

1949



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## CALENDAR OF THE COLLEGES

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1949

- Sept. 15 Thursday, 9:00 A.M.—Dormitories open to Freshmen.
- Sept. 15 Thursday, 7:30 P.M.—Assembly for all entering Freshmen; Freshman Orientation Program begins.
- Sept. 19 Monday—Registration and matriculation of new students with advanced standing—Trinity College and the College of Engineering.
- Sept. 20 Tuesday—Registration and matriculation of new students with advanced standing, Woman's College.
- Sept. 21 Wednesday, 11:00 A.M.—Formal opening of the Colleges.
- Sept. 22 Thursday—Instruction begins.
- Nov. 12 Saturday—Last day for reporting mid-semester grades.
- Nov. 24 Thursday—Thanksgiving Day: a holiday.
- Dec. 11 Sunday—Founders Day.
- Dec. 20 Tuesday, 5:00 P.M.—Christmas recess begins.

1950

- Jan. 4 Wednesday, 8:00 A.M.—Instruction is resumed.
- Jan. 18 Wednesday—Mid-year examinations begin.
- Jan. 28 Saturday—Mid-year examinations end.
- Jan. 30 Monday—Registration and matriculation of new students.
- Jan. 31 Tuesday—Last day for matriculation for second semester.
- Feb. 1 Wednesday—Second semester begins.
- March 16 Thursday—Last day for reporting mid-semester grades.
- March 25 Saturday, 12:30 P.M.—Spring vacation begins.
- April 3 Monday, 8:00 A.M.—Instruction resumed.
- April 18 Tuesday—Last day for submitting orations for Wiley Gray Contest.
- May 9 Tuesday—Earliest date for beginning of Honors examination.
- May 22 Monday—Final examinations for second semester begin.
- June 1 Thursday—Final examinations end.

- June 3 Saturday—Commencement begins; Senior Class Day; meeting of the Board of Trustees.
- June 4 Sunday—Commencement Sermon.
- June 5 Monday—Commencement Address; Graduating Exercises.

The above is the basic University Calendar, applying more particularly to the Undergraduate Colleges. Variations as affecting the various Schools are included in the catalogue bulletins of such Schools.

# 1949

JANUARY	APRIL	JULY	OCTOBER
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MARCH	JUNE	SEPTEMBER	DECEMBER
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## HISTORY

Duke University owes its existence to a charitable trust set up by James B. Duke by an Indenture dated December 11, 1924, and known as the Duke Endowment; to gifts made by him to the University in the succeeding year; and to bequests that came through his will at his death, October 10, 1925. It is built around Trinity College which was brought to Durham and maintained there largely through the generosity of the Duke family.

Trinity College in its origin goes back to 1838. In that year the citizens of a rural community in the northwest section of Randolph County, North Carolina, established a school with Rev. Brantley York as principal. In 1839 this school was enlarged and named Union Institute. In 1841 it was incorporated by the following enactment of the Legislature of North Carolina:

*An Act to Incorporate Union Institute Academy:\**

Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That Nathan Hunt, Joseph Mendenhall, Joseph Johnson, Lewis Leach, Jabez Leach, Martin W. Leach, and Ahi Robbins, and their successors, are hereby constituted a body corporate and politic to be known and distinguished by the name and style of the Trustees of the Union Institute Academy, and by that name shall have succession, and shall be able and capable in law to have, receive and possess lands and tenements, goods and chattels, acquired by gift or otherwise, and use and apply the same according to the will of the donor, or dispose of the same when not forbidden by the terms of the gift. They may sue and be sued, plead and be impleaded in any Court of Justice, and shall have power to fill vacancies in their body, which may occur by death, resignation, or otherwise, establish such laws and regulations for the government of said Institution as they may deem necessary, not inconsistent with the laws of this State, and do and perform all such acts and things as are incident to, and usually exercised for, bodies politic, for the accomplishments of the object contemplated.

Ratified the 12th day of January, 1841.

In the year 1842 Braxton Craven became principal of the school. The growth and development of the school caused the Trustees to plan to put it in direct relation to the educational needs of the public schools of the State. Application was made to the Legislature of North Carolina for a new charter, and on January 28, 1851, Union Institute Academy was incorporated as Normal College by the following enactment:

*An Act to Incorporate Union Institute, in Randolph County, a Normal College:†*

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That the present Trustees of Union Institute, to-wit: M. W. Leach, Ahi Robbins, Joseph Johnson, James Leach, and C. M. Hines; together with Rev. B. Craven, of said Institute; Hon. A. H. Sheppard, of Salem; John A. Gilmer, Esq., of Greensboro; Col. Samuel Hargrave, of Lexington; J. L. Blackmer, Esq., of Salisbury; Rev. S. A. Andrews, of Greensboro; Dr. S. G. Coffin, of Jamestown; H. B. Elliott, Esq., of Randolph; J. W. Thomas, Esq., of Davidson; John B. Troy, of Randolph; J. P. H. Russ, of Randolph; Eli Russell, of Montgomery, and Gen. J. M. Leach, of Lexington; and their successors be, and they are hereby declared, a body politic and corporate, to be known and distinguished by the name and style of the Normal College, and by that name shall have a perpetual succession, and a common seal, and be able and capable in law, of holding lands, tenements and chattels, sufficient for the uses and purposes of said College, and of suing and being sued, and of pleading and being impleaded.

SEC. 2. Be it further enacted, That said Trustees shall have the power to fix the time of holding the annual and other meetings, and to prescribe the manner in which vacancies in their body may be filled, five Trustees being a quorum to do business.

SEC. 3. Be it further enacted, That the said College shall be under the supervision, management and government of a President and such other persons as said Trustees may appoint; the said President, with the advice of the other persons so appointed, shall from

\* Laws of North Carolina, 1840-1843.

† Laws of 1850-1851, chapter 20, page 56.



time to time make all needful rules and regulations for the internal government of said College, and fix the number and compensation of teachers to be employed therein, to prescribe the preliminary examinations and the terms and conditions on which pupils shall be received and instructed, and the number of pupils to be received from the respective counties.

Sec. 4. Be it further enacted, That said Trustees shall have power to make such rules, regulations and bylaws, not inconsistent with the Constitution of the United States and of this State as may be necessary for the good government of said College, and the management of the property and funds of the same.

Sec. 5. Be it further enacted, That when any pupil shall have sustained a satisfactory examination on the studies, or course of studies, prescribed by the Faculty and Trustees of said College, such person shall be deemed qualified to teach common schools and may receive a certificate signed by the President and at least seven Trustees, which certificate shall be sufficient evidence of ability to teach in any of the common schools in this State, without any reexamination of the county committees; and where county certificates are now required before paying out the public funds, the certificate of the Normal College shall answer in lieu thereof.

Sec. 6. Be it further enacted, That the whole College course shall be divided into four classes or degrees, styled first, second, third and fourth, and students shall be ranked accordingly.

Sec. 7. Be it further enacted, That all pupils entering said College shall first sign a declaration, in a book to be kept by the President for that purpose as follows: "We, the subscribers, hereby declare that it is our intention to devote ourselves to the business of teaching common schools in the State of North Carolina, and that our sole object in resorting to this Normal College is the better to prepare ourselves for that important duty," which declaration it shall be the duty of the President to explain to the pupils before they sign the same.

Ratified 28th January, 1851.

On November 21, 1852, the Legislature ratified amendments to the charter of 1851 including changes and additions as follows:

*An Act to Amend an Act, Entitled "An Act to Incorporate Union Institute, in Randolph County, Normal College":\**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That J. C. Dobbin, John A. Gilmer, W. H. Washington, A. H. Sheppard, H. B. Elliott, J. M. Leach, Joseph Johnson, S. G. Coffin, A. S. Andrews, Joseph B. Cherry, N. W. Woodfin, B. Craven, James Leach, Calvin Graves, Ahi Robbins, John B. Troy, Robert Strange, John W. Thomas, Samuel Hargrave, J. P. H. Russ, W. M. Leach, W. L. Steele, R. M. Saunders, W. B. Lane, G. W. Caldwell, C. H. Wiley, Jabez Leach, John A. Lillington, J. T. Morehead, Thales McDonald, R. C. Puryear, S. P. Hill, Alexander Gray, James M. Garrett, and Edward Ogburn and their successors be, and they are hereby declared, a body politic and corporate to be known and distinguished by the name and style of "The Trustees of Normal College," and by that name and style shall have a perpetual succession and a common seal, and be able and capable in law of holding lands, tenements and chattels for the uses and purposes of said College; and of suing and being sued, and of pleading and being impleaded.

Sec. 2. Be it further enacted, That the Governor of the State shall be *ex-officio* President of the Board of Trustees, and that the common school superintendent, should such an officer exist, shall be *ex-officio* Secretary of the Board, and that all vacancies in the Board shall be filled by a majority of the Trustees of said College.

Sec. 3. Be it further enacted, That the Trustees shall have power of appointing an Executive Committee, to consist of seven members which committee shall control the internal regulations of said College, and fix all salaries and emoluments, and of doing all other things necessary for an institution of learning not inconsistent with the laws of this State and of the United States.

Sec. 4. . . . They shall have also the power to grant such degrees and marks of honor as are given by Colleges and Universities generally.

Sec. 5. Be it further enacted, That the Secretary of the Board of Trustees shall, within ten days after the meeting of each [Legislature] make a full report of the condition and operations of said Normal College, and the general character of Normal Instruction; also, the condition and progress of Normal schools generally, together with all other information deemed important in the education of teachers, giving also the names and residences of all who have been authorized to teach.

Sec. 6. Be it further enacted, That the President and Directors of the literary fund are hereby directed to loan to the Trustees of Normal College, the sum of ten thousand dollars out of any moneys not otherwise appropriated, at six per cent interest, to be paid semiannually, upon said Trustees giving bond and good security for the same.

Under the amended charter authorizing the institution to confer degrees, two students were graduated on July 28, 1853, with the degree of Bachelor of Arts.

In the year 1853-1854 a larger building was erected by means of money lent by the State of North Carolina under the authority granted in the

\* Laws of 1852-1853, chapter 88, page 161.

amended charter. In November, 1856, the Trustees of Normal College authorized President Craven to propose to the North Carolina Conference of the Methodist Episcopal Church, South, that the institution be placed under the ownership and control of that body. The Conference passed the following resolution:

1. That the Conference authorize and request the Board of Trustees of Normal College to raise by donations twenty thousand dollars.
2. That all lands and property belonging to the College be conveyed to the Board of Trustees in trust for the North Carolina Conference.
3. That the Conference fill all vacancies in the Board.
4. That the Conference appoint a visiting committee, which committee shall have equal power with the Board as to the internal regulations and operations of the College.

Within the following two years the Trustees arranged to meet all the conditions stipulated. The North Carolina Conference of the Methodist Episcopal Church, South, in consequence, became invested with the complete ownership and control of the College.

On February 16, 1859, the charter was amended and the name of the institution changed to Trinity College by the following enactment of the Legislature of North Carolina:

*An Act to Amend the Charter of Normal College:\**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That the corporation established by an act passed in 1852, and known by the style and title of the "Trustees of Normal College," be and the same is hereby changed to Trinity College; and said corporation shall henceforth, by the name and style of Trinity College, hold and use all the authority, privileges, possessions and liabilities it had under the former title and name.

SEC. 2. Be it further enacted, That the estate, real and personal, received and controlled by the Trustees of Trinity College, shall be for the uses and purposes of a literary institution for the North Carolina Conference of the Methodist Episcopal Church, South.

SEC. 3. Be it further enacted, That all vacancies in the Board of Trustees shall be filled by said North Carolina Conference: *Provided, however,* that no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundaries of the State, or who may refuse or neglect to discharge the duties of a Trustee.

SEC. 4. Be it further enacted, That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC. 5. Be it further enacted, That no person shall keep, maintain, or have at Trinity College, or within two miles thereof, any tippling-house establishment, or place for the sale of wine, cordials, spirituous or malt liquors; nor shall any person in the State, without a written permission from the Faculty, sell, or offer to sell, give or deliver to any student of Trinity College, or to any other person, any wine, cordials, spirituous or malt liquors for the purpose of being used or with a knowledge that the same will be used at said College, or within two miles thereof, by any student.

SEC. 6. Be it further enacted, That no person shall set up, keep or maintain at Trinity College, (or) within two miles thereof, any public billiard table, or other table, of any kind at which games of chance or skill, by whatever name called, may be played; and that no person, without written permission from the Faculty, shall within the same limits exhibit any theatrical, sleight-of-hand, natural or artificial curiosities, or any concert, serenade, or performance in music, singing or dancing.

SEC. 7. Be it further enacted, That sections second, fourth and fifth of the charter passed in 1852, are hereby repealed, and that all acts and laws coming within the meaning and purview of this present act are hereby repealed.

During the Civil War the College shared the common fate of Southern colleges. President Craven resigned in 1863, and Professor William T. Ganaway was elected his successor. In October, 1865, Dr. Craven was re-elected to the presidency; however, the work of the College, which had been suspended in April of that year, was not resumed till January, 1866. Dr. Craven remained president of the College till his death, November 7, 1881. Professor William Howell Pegram was then elected chairman of the Faculty. He served till the close of the academic year, June, 1883.

The Reverend Marquis L. Wood was elected president in 1883; he resigned in December, 1884, when Professor John F. Heitman was elected chairman of the Faculty. John Franklin Crowell was chosen president of the College in April, 1887.

\* Laws of 1858-1859, chapter 85, page 81.

President Crowell conceived the idea of enlarging the scope of college work and of removing Trinity College to a city. The Board of Trustees on May 7, 1889, passed the following resolutions:

*Resolved* (1). That after mature and prayerful consideration we believe it best for the interest of Methodism in North Carolina, and the cause of God, to move Trinity College to some prominent center within this State: *Provided*, There shall be tendered to this Board a proper guarantee of a suitable site, with buildings on it, of at least equal value, and as well suited for the uses of the College as those on the present site.

*Resolved* (2). That a committee of five be appointed to carry out the true intent of the above resolution, and report to the next annual meeting of the Board of Trustees.

At a meeting of the Trustees held in Greensboro, North Carolina, November 30, 1889, the following resolutions were adopted:

*Resolved* (1). That the Board of Trustees of Trinity College accept the offer of the citizens of Raleigh to erect a college building on the site designated, said building to be according to the plans and specifications mentioned in their offer.

*Resolved* (2). That we recommend the N. C. Annual Conference of the M. E. Church, South, to authorize the removal of Trinity College in accordance with the above and former resolutions passed by this Board.

*Resolved* (3). That the grounds and buildings now owned and used at Trinity College be held by the same Board of Trustees to be used as an academical department to prepare students for the college classes.

In accordance with these resolutions, through President Crowell, the Conference was asked at its session in Greensboro, December, 1889, to grant permission to remove the College to the City of Raleigh. The Conference took the following action:

*Resolved*, That the Board of Trustees of Trinity College be and is hereby authorized and directed to move Trinity College to the City of Raleigh, when the citizens of said city shall have erected on the site designated and known as the Boylan lot, the building proposed and agreed to be built by them *Provided*, That before said college is moved, as aforesaid, there shall be made, executed and delivered to said Trustees a good and sufficient deed in fee simple with proper covenants of warranty and seizin, conveying the lot and site designated to said Trustees and their successors in office, for the use and benefit of the North Carolina Conference, Methodist Episcopal Church, South, as it now exists, and for the use and the benefit of such Conferences, as may be hereafter created by the Methodist Episcopal Church, South, out of any territory within the State of North Carolina.

Some time after this action of the Conference, Washington Duke and other citizens of Durham, North Carolina, made a proposition to the Trustees to locate the College in Durham, and this proposition was accepted. On January 21, 1891, the Legislature of North Carolina issued the following charter:

*An Act to Amend the Charter of Trinity College:*

The General Assembly of North Carolina do enact:

SECTION 1. That the Trustees of Trinity College are authorized and empowered to remove the operations and exercises of said College, and to locate the buildings deemed necessary by them for the purpose of the College, at or near the town of Durham, North Carolina. They may, if they so elect, establish and maintain in connection with said College institutions of primary and intermediate education at the present site of the College in Randolph County, and at such other points as they may now or hereafter determine, for the purpose of preparing students for admission to a collegiate course. The management of such auxiliary and subordinate high schools and academies shall be vested in the said Board of Trustees, who are authorized to make by-laws and regulations for them, as well as for the College proper.

SEC. 2. That the Trustees of Trinity College are authorized to receive and hold by gift, devise or purchase, property, real and personal, to be held for the use of said College and its dependent schools or for the use of either or both (as may be designated in the conveyance or will), (to a value not exceeding in the aggregate sum three millions of dollars).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of M. E. Church, South, twelve by the W. N. C. Conference of said church, and twelve by graduates of said College. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall regulate by by-laws the manner of election of the Trustees to be chosen by the graduates. Should there exist a vacancy by death, resignation, or otherwise, of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. The terms of the Trustees now in office shall expire January first, one thousand eight hundred and ninety-two. At the first election held under this amendment to the Charter, the body of graduates and each of the Conferences shall respectively elect four Trustees for the term of



two years; in like manner each of said constituencies shall elect four Trustees for the term of four years, and in like manner each shall elect four Trustees for the term of six years.

In September, 1892, the College opened its first session in the new plant located at Durham. In May, 1894, President Crowell resigned, and on August 1, 1894, the Reverend John C. Kilgo was elected his successor. In May, 1897, the Trustees authorized the admission of women as students to all departments of the College.

On account of the fact that the fundamental laws under which the College was managed were contained in an original charter and in several amendments, it was deemed best by the Board of Trustees, in June, 1902, to appoint a committee to make an application to the Legislature for a new charter, which should unify and harmonize the provisions of the existing legislation. On February 28, 1903, the Legislature of North Carolina granted the new charter which is identical with the charter as found on pages 14-15, except that the corporate name of the institution is changed to Duke University and the corporation is given perpetual existence, an amendment enacted by the General Assembly of North Carolina, January 19, 1911, having already stricken out the limitations set in former charters to the amount of property the College might hold.

Having been elected a bishop of the Methodist Episcopal Church, South, President Kilgo resigned in June, 1910. William Preston Few was elected to succeed him and was formally inaugurated November 9, 1910.

On December 29, 1924, the Board of Trustees of Trinity College met to consider the Indenture of Trust executed by James B. Duke, December 11, 1924. The Board voted unanimously to accept the provisions of the Indenture insofar as it affected Duke University, and authorized the necessary steps to be taken whereby, on December 30, 1924, a charter for the University was granted. The charter follows closely that of Trinity College and is printed on pages 14-15.

President Few died October 16, 1940. Dr. R. L. Flowers was elected President January 29, 1941.

On November 19, 1948, Arthur Hollis Edens was named President to succeed Dr. Flowers, who was made Chancellor on the same day.

Duke University is approved by the recognized accrediting agencies in the field of university education and is a member of various associations devoted to the interests of such education. Among those in which it holds membership are the Association of American Universities, the Southern Association of Colleges and Secondary Schools, the American Association of Colleges, the Southern University Conference, the American Association of Law Schools, the Association of American Medical Colleges, the American Association of Theological Schools, and others.



## GOVERNMENT

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### 7. THE INDENTURE OF TRUST BY WHICH THE UNIVERSITY WAS CREATED

Among the provisions of James B. Duke's indenture of trust was an educational institution to be known as Duke University, in respect to which the Indenture contains the following provisions, and these provisions apply also to gifts made by him the year before he died and to bequests that came to the University at his death or that have come since:

I. (In Article FOURTH) The Trustees hereunder are hereby authorized and directed to expend as soon as reasonably may be not exceeding Six Million Dollars of the corpus of this trust in establishing at a location to be selected by them within the State of North Carolina an institution of learning to be known as Duke University, for such purpose to acquire such lands and erect and equip thereon such buildings according to such plans as the Trustees may in their judgment deem necessary and adopt and approve for the purpose, to cause to be formed under the laws of such state as the Trustees may select for the purpose a corporation adequately empowered to own and operate such properties under the name of Duke University as an institution of learning according to the true intent hereof, and to convey to such corporation when formed the said lands, buildings and equipment upon such terms and conditions as that such corporation may use the same only for such purposes of such university and upon the same ceasing to be so used then the same shall forthwith revert and belong to the Trustees of this trust as and become a part of the corpus of this trust for all the purposes thereof.

However, should the name of Trinity College, located at Durham, North Carolina, a body politic and incorporate, within three months from the date hereof (or such further time as the Trustees hereof may allow) be changed to Duke University, then, in lieu of the foregoing provisions of this division "FOURTH" of this Indenture, as a memorial to his father, Washington Duke, who spent his life in Durham and whose gifts, together with those of Benjamin N. Duke, the brother of the party of the first part, and of other members of the Duke family, have so largely contributed toward making possible Trinity College at that place, he directs that the Trustees shall expend of the corpus of this trust as soon as reasonably may be a sum not exceeding Six Million Dollars in expanding and extending said University, acquiring and improving such lands, and erecting, removing, remodeling and equipping such buildings, according to such plans, as the Trustees may adopt and approve for such purpose to the end that said Duke University may eventually include Trinity College as its undergraduate department for men, a School of Religious Training, a School for Training Teachers, a School of Chemistry, a Law School, Co-ordinate College for Women, a School of Business Administration, a Graduate School of Arts and Sciences, a Medical School and an Engineering School, as and when funds are available.

II. (In Article FIFTH) Thirty-two per cent of said net amount not retained as aforesaid for addition to the corpus of this trust shall be paid to that Duke University for which expenditures of the corpus of the trust shall have been made by the Trustees under the "Fourth" division of this Indenture so long as its name shall be Duke University and it shall not be operated for private gain, to be utilized by its Board of Trustees in defraying its administration and operating expenses, increasing and improving its facilities and equipment, the erection and enlargement of buildings and the acquisition of

additional acreage for it, adding to its endowment or in such other manner for it as the Board of Trustees of said institution may from time to time deem to be of its best interests, provided that in case such institution shall incur any expense or liability beyond provision already in sight to meet same, or in the judgment of the Trustees under this Indenture be not operated in a manner calculated to achieve the results intended hereby the Trustees under this Indenture may withhold the whole or any part of such percentage from said institution so long as such character of expense or liabilities or operation shall continue, such amounts so withheld to be in whole or in part either accumulated and applied to the purposes of such University in any future year or years, or utilized for the other objects of this Indenture, or added to the corpus of this trust for the purpose of increasing the principal of the trust estate, as the Trustees may determine.

III. (In Article SEVENTH) I have selected Duke University as one of the principal objects of this trust because I recognize that education, when conducted along sane and practical, as opposed to dogmatic and theoretical, lines, is, next to religion, the greatest civilizing influence. I request that this institution secure for its officers, trustees, and faculty, men of such outstanding character, ability, and vision as will insure its attaining and maintaining a place of real leadership in the educational world, and that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination, and application evincing a wholesome and real ambition for life. And I advise that the courses at this institution be arranged, first, with special reference to the training of preachers, teachers, lawyers and physicians, because these are most in the public eye, and by precept and example can do most to uplift mankind, and second, to instruction in chemistry, economics, and history, especially the lives of the great of earth, because I believe that such subjects will most help to develop our resources, increase our wisdom and promote human happiness.

IV. (In Article THIRD) As respects any year or years and any purpose or purposes for which this trust is created (except the payments hereinafter directed to be made to Duke University) the Trustees in their uncontrolled discretion may withhold the whole or any part of said incomes, revenues and profits which would otherwise be distributed under the "Fifth" division hereof, and either (1) accumulate the whole or any part of the amount so withheld for expenditures (which the Trustees are hereby authorized to make thereof) for the same purpose in any future year or years, or (2) add the whole or any part of the amounts so withheld to the corpus of the trust, or (3) pay, apply and distribute the whole or any part of said amounts to and for the benefit of any one or more of the other purposes of this trust, or (4) pay, apply and distribute the whole or any part of said amounts to or for the benefit of any such like charitable, religious or educational purpose within the State of North Carolina or the State of South Carolina, or any such like charitable hospital purpose which shall be selected therefor by the affirmative vote of three-fourths of the then Trustees at any meeting of the Trustees called for the purpose, complete authority and discretion in and for such selection and utilization being hereby given the Trustees in the premises.

## 2. THE CHARTER OF THE UNIVERSITY

SECTION 1. That A. P. Tyer, J. H. Southgate, B. N. Duke, G. A. Oglesby, V. Ballard, J. A. Long, J. F. Bruton, J. N. Cole, F. A. Bishop, J. G. Brown, C. W. Toms, J. W. Alspaugh, W. R. Odell, J. A. Gray, F. Stikeleather, Kope Elias, S. B. Turrentine, P. H. Hanes, T. F. Marr, G. W. Flowers, M. A. Smith, R. H. Parker, W. J. Montgomery, F. M. Simmons, O. W. Carr, R. A. Mayer, N. M. Journey, Dred Peacock, B. B. Nicholson, W. G. Bradshaw, E. T. White, T. N. Ivey, J. B. Hurley, R. L. Durham, W. C. Wilson, and their associates and successors shall be, and continue as they have been, a body politic and corporate under the name and style of DUKE UNIVERSITY, and under such name and style shall have perpetual existence and are

hereby invested with all the property and rights of property which now belong to the said corporation, and said corporation shall henceforth and perpetually, by the name and style of DUKE UNIVERSITY, hold and use all the authority, privileges, and possessions it had or exercised under any former title and name, and be subject to all recognized legal liabilities and obligations now outstanding against said corporations.

SEC. 2. That such corporation is authorized to receive and hold by gift, devise, purchase or otherwise, property, real and personal, to be held for the use of said University and its dependent schools or for the use of either or both (as may be designated in the conveyance or will).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of the M. E. Church, South; twelve by the W. N. C. Conference of the said church; and twelve by the graduates of said University; *Provided, however*, That no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundary of the State or who may refuse or neglect to discharge the duties of a Trustee. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall regulate by bylaws the manner of election of the Trustees to be chosen by the graduates. Should there exist a vacancy by death, resignation, or otherwise of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. That the present Trustees shall continue and remain in office during the term for which they have been heretofore respectively elected.

SEC. 4. That the said corporation shall be under the supervision, management and government of a president and such other persons as said Trustees may appoint; the said president, with the advice of other persons so appointed, shall from time to time make all needful rules and regulations for the internal government of said University and prescribe the preliminary examinations and terms and conditions on which pupils shall be received and instructed.

SEC. 5. That said Trustees shall have power to make such rules, regulations, bylaws not inconsistent with the Constitution of the United States and of this State, as may be necessary for the good government of said University and management of the property and funds of the same.

SEC. 6. That the Trustees shall have power to fix the time of holding their annual and other meetings, to elect a president and professors for said University, to appoint an executive committee to consist of seven members, which committee shall control the internal regulations of said University and fix all salaries and emoluments, and to do all other things necessary for an institution of learning no inconsistent with the laws of this State and of the United States.

SEC. 7. That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC. 8. That all laws and parts of laws or of the charter heretofore granted which are in conflict with this act are hereby repealed.

SEC. 9. That this act shall be in force from and after its ratification and acceptance by the Board of Trustees.

### 3. THE BYLAWS OF THE UNIVERSITY

1. AIMS OF THE UNIVERSITY. The aims of Duke University are to assert a faith in the eternal union of knowledge and religion set forth in the teachings and character of Jesus Christ, the son of God; to advance learning in all lines of truth; to defend scholarship against all false notions and ideals; to develop a Christian love of freedom and truth; to promote a sincere spirit of tolerance; to discourage all partisan and sectarian strife; and to render the



largest permanent service to the individual, the state, the nation, and the church. Unto these ends shall the affairs of this University always be administered.

2. **THE UNIVERSITY TRUSTEES, THEIR MEETINGS AND THEIR OFFICERS.** The Alumni Trustees, nominated by the Board as provided for in the Charter, are elected by the Alumni Association. The officers of the Board are chairman, vice-chairman, and recording secretary. They are elected by the Trustees at their annual meeting to serve one year or until their successors are elected and qualify. The chairman calls to order and presides at all meetings of the Board, calls extraordinary meetings when, in his judgment, such meetings may be necessary, and represents the Trustees at public meetings of the University. He is ex-officio member of the Executive Committee. In the absence of the chairman the vice-chairman calls to order and presides over meetings of the Board, but does not perform any of the other duties of the chairman unless ordered to do so by the Board or the Executive Committee. The recording secretary records the minutes of all the meetings, does the correspondence, and is the custodian of the records and other documents that may belong to the Board.

3. **THE EXECUTIVE COMMITTEE.** The Executive Committee consists of seven members and may, under certain circumstances, consist of eight members, one from the University Trustees, including the chairman of the Board of Trustees, three from the Endowment Trustees, the President of the University ex-officio, and, in the event there is a Chancellor elected and acting, the Chancellor of the University ex-officio. It performs the duties set out for it in the charter--namely, controls the internal regulations of the University and fixes all salaries and emoluments. It has all the powers of the Board of Trustees in the intervals between meetings of the Board of Trustees except the nomination of Trustees and election of members of the Executive Committee; however, appointment of officers of the University by the Executive Committee is subject to the approval of the University Trustees. The Executive Committee is expressly empowered to appoint an Investment Committee and to give to such Committee such powers and duties, as in the judgment of the Executive Committee, may seem fit. The Executive Committee is elected by the University Trustees, three of them on nomination of the Endowment Trustees, and the Committee elects its own officers who are chairman and recording secretary. It meets once a month (unless otherwise determined by the Committee) and oftener when necessary and by its own resolution sets its time and date of meetings except that special meetings are called by its chairman upon three or more days written or telegraphic notice to the members of the Committee. The Committee through its chairman, once a year makes a report to the annual meeting of the University Trustees.

4. **OFFICERS OF THE UNIVERSITY.** The officers of the University are a president, three vice-presidents, a business manager and comptroller, a treasurer, a burser, a dean of the University, and such other deans as may be needed, a recording dean or registrar, and a secretary who is also secretary of the faculty. There may also be a chancellor and a vice-chancellor. Whenever it may seem wise, one persons may hold more than one office.

**PRESIDENT.** The President of the University calls, and presides at, all the meetings of the Faculties, sees that the laws and regulations of the Executive Committee and the Trustees affecting the administration and work of the University are carried out, appoints all committees of the Faculties and has direction of the discipline and work of the University. He has the authority to veto any action of the Faculties, when, in his judgment, such action is not in harmony with the aims and laws of the University, or when he may deem such action as unwise. However, in every instance he shall submit to the Faculty in writing his reasons for setting aside their action, and the secretary of the Faculty shall record his reasons in the record book of the Faculty. The President makes an annual report to the Board of the work, conditions, and needs of the University, and of other matters that may be of concern to it or



to the cause of higher education. He nominates all members of the Faculties, and represents them at all public meetings of the University. He is an ex-officio member of the Executive Committee; and acts unless the Trustees designate the Chancellor of the University for the purpose, as a medium of communication between the University Trustees and the Endowment Trustees.

**CHANCELLOR.** There may be a Chancellor of the University. If the Trustees appoint such an officer, he shall be selected for this office because of his long and faithful service to the University. Such an officer, if appointed, is a high officer of the University. He may be designated by the Trustees as the medium of communication between the University Trustees and the Endowment Trustees and when he is so designated the President does not act in such a capacity. He is available, when requested by the President, to render all possible services in an advisory capacity. He has such other duties as may, from time to time, be delegated to him by the Trustees. If and when a Chancellor is appointed, he is a member ex-officio of the Executive Committee.

**VICE-CHANCELLOR.** There may be a Vice-Chancellor of the University. If the Trustees appoint such an officer he shall be selected because of his long and faithful service to the University. When requested by the Chancellor, he performs the duties designated to the Chancellor by the Trustees. He is available, when requested by the Chancellor or President, to render all possible services in an advisory capacity. He also has such other duties as, from time to time, may be delegated to him by the Trustees.

**VICE-PRESIDENTS.** The three Vice-Presidents of the University have supervision of the work of the University in the divisions of (a) education, (b) public relations, and (c) student life. In the absence of the President, Vice-Presidents, in the above order, may perform such duties of the President as may demand immediate attention.

**BUSINESS MANAGER AND COMPTROLLER.** The Business Manager, who is also Comptroller, has the custody of all property of the University. He is responsible to an administrative committee and through such committee to the Trustees either directly or through the Executive Committee for all matters pertaining to the business affairs of the University except the investment of funds and is required to make monthly reports through such administrative committee to the Executive Committee and annual reports through the administrative committee to the Trustees concerning his accounts and the property in his charge. Such administrative committee is composed of not less than three nor more than five persons, three of whom are the President of the University, as chairman, the Business Manager and Comptroller, and a Vice-President selected from time to time by the Trustees or the Executive Committee. The Executive Committee has power to determine the number, if any, of additional members, up to the limit set, to be added to or removed from membership in the committee and in their judgment to make selection of the persons to be so added or so removed. The Business Manager and Comptroller annually prepares or causes to be prepared a Budget of expected Receipts and Disbursements and submits same to the Executive Committee for their approval. Upon such approval, he is primarily responsible for the operation of the Budget. He nominates to the Executive Committee any and all assistants required by him to do well the duties of his office. The Business Manager and Comptroller shall be required to give bond in such amount as may be designated by the Trustees or the Executive Committee for the faithful performance of his duties.

**TREASURER.** The Treasurer has primary responsibility for the care and custody of all securities and for the financial records of the University. He makes an annual report of his accounts to the Trustees and such reports, as from time to time, may be required of him by the Executive Committee. He also makes to the Business Manager and Comptroller monthly reports and oftener when required. He nominates to the Executive Committee any and all assistants required by him to do well the duties of his office including the nomination of a Bursar and Assistant Treasurer or Treasurers which officers and assistants shall primarily be responsible to him. The Treasurer and his

assistants shall be required to give bond in such amount as may be designated by the Trustees or the Executive Committee for the faithful performance of their duties.

**BURSAR.** The Bursar has primary responsibility for all collections and disbursements. He is nominated by and responsible to the Treasurer to whom he makes such reports as the Treasurer from time to time requires of him. The Bursar shall be required to give bond in such amount as may be designated by the Trustees or the Executive Committee for the faithful performance of his duties.

**SECRETARY.** The Secretary of the University has custody of the corporate seal of the University and affixes and attests same when circumstances require and the Trustees or the Executive Committee so direct. He is also secretary of the Faculty, attends its meetings and makes permanent records of actions and transactions at such meetings. He has such other duties and responsibilities as his title suggests and as may, from time to time, be delegated to him by the appropriate authorities.

**5. FACULTIES.** The General Faculty of the University is composed of professors, associate professors, and assistant professors who have been elected to membership in the Faculty. Concerning questions that do not lie exclusively in the field of any one Faculty and questions of University educational policy this Faculty has the right to enact such regulations as it may deem necessary to carry on the instruction, advance the standard of work, and otherwise develop the scholarly aims of the University. The General Faculty recommends to the University Trustees such persons as it deems fit to receive academic degrees or other marks of academic distinction. This Faculty meets twice a year and at other times on the call of the President or Dean of the University, or on the written request of five members.

The professional schools have their own faculties, each with its dean and other appropriate officers elected by the Executive Committee with the approval of the University Trustees, and each is authorized to perform any educational functions that lie in its field.

The Faculty Council includes the Deans and Assistant Deans of Trinity College and the Woman's College, the Dean of the Graduate School, the Secretary of the General Faculty, the Chairman and Director of Undergraduate Studies in each department offering instruction in the undergraduate colleges of liberal arts and sciences, one additional member elected by each department that has five or more teachers giving instruction in arts and sciences, and such others as may be appointed to membership in the Council by the governing bodies of the University. The Council meets once a month and considers questions of curriculum in the field of arts and sciences and other educational details and policies that are outside the functions of any one faculty.

The Council on Undergraduate Teaching consists of the Deans and Assistant Deans of Trinity College, the Woman's College, the College of Engineering, some other officers and appointed members, and teachers of all ranks who are giving fifty per cent or more of their time to the instruction of undergraduates. Courses to which both Seniors and graduates are admitted are understood as intended primarily for graduate students. The business of this Council is to stimulate good teaching and to find ways and means to make college teachings as effective as possible. It has the right to take such action as may be necessary to promote these ends.

The Council on the Instruction of Freshmen is composed of the Dean of Undergraduate Instruction, the Dean of Freshmen, and the Supervisor of Freshman Instruction from each department offering courses for Freshmen. It considers policies and matters of detail as affecting Freshman Instruction and also provision for the general welfare of Freshmen. The Freshman Council makes recommendations to the Faculty Council for action in matters of general policy. The Freshman Council has the power to call upon members of the Faculty for reports or other information pertaining to the instruction of Freshmen at such dates as it may determine.

The Council on Education for Women consists of the Dean of the Woman's College and of one representative from each department offering courses which are largely taken by women students. It shall consider matters of interest and policy relating to the instruction and general welfare of the women students of the University, and make recommendations to the President, or the Faculty Council. The members of the Council on Education for Women are appointed by the President of the University.

The Council on Engineering Instruction consists of the Dean of the College of Engineering, the Secretary of the College, the Dean of the University, the Chairmen of the several departments in engineering, one representative to be appointed by the President of the University from each of the Departments of Mathematics, Physics, Chemistry, Economics, English. The Council deals with questions relating to instruction in engineering, the welfare of engineering students, and the cause of engineers in general. The Executive Committee consists of the Dean and the Secretary of the College of Engineering, and the Chairmen of the Departments of Civil, Electrical, and Mechanical Engineering.

The Council on Graduate Instruction consists of members of the Faculty above and including the ranks of associate professors who give at least half of their time to graduate work under the direction of the Graduate School, and others who may be appointed by the Governing Bodies of the University. One member is appointed from each of the professional schools which give courses for graduate credit, and in some cases more than one. The Council has to do with whatever pertains to instruction and requirements for degrees in the Graduate School of Arts and Sciences.

The Executive Committee of the Council on Graduate Instruction consists of the Dean and six members appointed by the President upon the recommendation of the Dean. Blanks are distributed once a year to each member of the Council with the request that six names be entered on the blank as his suggestions for members of the Committee. It is understood that the Dean is to take these suggestions into account in his recommendations to the President. Insofar as possible the Humanities, Biological and Physical Sciences, Social Sciences, and other fields are to be represented on the Executive Committee of the Council on Graduate Instruction. No more than four of the six committee members are to be reappointed for any ensuing year.

6. **ACADEMIC YEAR.** The academic year begins on the morning of the Wednesday following September 15. The annual Commencement comes in the week including the first Sunday in June. The Christmas recess begins at 1:00 P.M. December 20 (or December 19 if December 20 falls on Sunday), and ends at 8:00 A.M., January 3 (or January 4 if January 3 falls on Sunday). The spring recess begins at 1:00 P.M. of the Saturday in March nearest to March 25, and ends at 8:00 A.M., of Monday nine days later. Thanksgiving Day is a holiday.

7. **TENURE OF OFFICE.** Teachers of all ranks are subject to removal by the Executive Committee, with the approval of the University Trustees, for misconduct or neglect of duty. Teachers may be elected for terms of one, two, three, or four years; or teachers with the rank of professor may be elected without time-limit. Administrative officers are usually elected without time-limit, but the Executive Committee, with the approval of the University Trustees, may remove any officers of the University whenever, in their opinion, he is not properly performing the duties of his office.

8. The bylaws may be amended at any regular meeting of the University Trustees by the affirmative vote of two thirds of the then membership of the Board, provided that the proposed amendment is submitted through the Secretary of the Board to the members at least twenty days before the meeting.

### SABBATICAL LEAVE

Sabbatical leave of absence for members of the General Faculty is granted under regulations adopted by the Executive Committee of the Trustees on March 28, 1923, revised in 1928, partly in abeyance in the year 1933-34 and



the succeeding three years, and restored in the year 1937-38. The conditions on which sabbatical leave of absence is granted are set forth below.

1. Every member of the General Faculty (composed of professors, associate professors, and assistant professors) is eligible for sabbatical leave after six years in the service of the University. Such leave may be taken for a full year at half salary or a half year at full salary.

2. In order to obtain a sabbatical leave written request for such leave must be filed with the President of the University by December 1 of the academic year preceding the one in which the leave is to take effect.

3. If in exceptional cases it should develop that the granting of leave to an applicant during the year for which application is made would raise very serious difficulties detrimental to the best interests of the applicant's department or school, or the interests of the institution as a whole; or because of questions concerning the applicant's period of service prior to the leave, the President shall appoint a committee which shall have power to decide the question of granting the sabbatical leave for the particular year under consideration. This committee shall consist of five members as follows: two members of the general faculty appointed yearly by the President, the Treasurer of the University, the Dean of the school or college of which the applicant is a member, the chairman of the applicant's department, or should no such chairman exist another member of the applicant's department.

4. If this committee should decide against the granting of a sabbatical leave for the year for which the applicant applied, the applicant would be eligible for sabbatical leave the following year or any year thereafter upon making application in due form as above.

5. After September 1, 1928, if a member of the faculty on becoming eligible for sabbatical leave does not for some special reason apply for such leave, he may count the additional years of service prior to his leave toward the six years of service necessary before he can apply for a subsequent leave. If in an exceptional case an applicant for personal reasons applies for a sabbatical leave to be effective in advance of his regular year and such leave is granted, he shall not be eligible for a subsequent leave until he has served six years plus the number of years by which this leave is advanced.

6. On recommendation of the committee after leave of absence has been granted it may be postponed for urgent reasons and under conditions to be determined by the committee.

7. All those cases which have occurred in the past or which may occur in the future in which leave of absence is granted under conditions where the absentee receives full pay for a half year or half pay or more for a full year's leave of absence, shall be considered as regular sabbatical leave under these regulations.

8. These revised regulations became effective as of September 1, 1928, and sabbatical leaves under such regulations began with the academic year 1929-30. The regulations were partly in abeyance in 1933-34, 1934-35, 1935-36, and 1936-37. The restoration of the regulations begins with the academic year 1937-38. The four years, 1933-34, 1934-35, 1935-36, and 1936-37, may not count toward the six years of service necessary before application can be made for leave of absence. In all cases in which special arrangements have been made for the granting of sabbatical leave (as described in condition No. 7) during the period of partial abeyance of the plan, the next six years of service shall be counted as beginning with the academic year 1937-38. All other members of the General Faculty who apply for sabbatical leave may count the years of service they had to their credit at the beginning of the academic year 1933-34.



# GOVERNING BODIES AND OFFICERS

## EXECUTIVE COMMITTEE OF THE UNIVERSITY

(Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.)

	Year of Election	
WILLIS SMITH, Chairman.....	1946.....	Raleigh, N. C.
G. G. ALLEN.....	1923.....	New York, N. Y.
A. H. EDENS.....	1948.....	Durham, N. C.
R. L. FLOWERS.....	1923.....	Durham, N. C.
A. R. KEARNS.....	1945.....	High Point, N. C.
*M. E. NEWSOM.....	1917.....	Durham, N. C.
W. N. REYNOLDS.....	1933.....	Winston-Salem, N. C.
A. H. SANDS, JR.....	1946.....	New York, N. Y.
J. H. SEPARK.....	1929.....	Gastonia, N. C.

## UNIVERSITY TRUSTEES

Term Expires December 31, 1955

G. G. ALLEN.....	1923.....	New York, N. Y.
JAMES A. BELL, Vice-Chairman.....	1920.....	Charlotte, N. C.
R. G. CHERRY.....	1934.....	Gastonia, N. C.
R. L. FLOWERS.....	1927.....	Durham, N. C.
J. P. FRIZZELLE.....	1937.....	Snow Hill, N. C.
T. M. GRANT.....	1933.....	Rocky Mount, N. C.
E. L. JONES.....	1945.....	Charlotte, N. C.
J. R. SMITH.....	1934.....	Mount Airy, N. C.

### FROM THE ALUMNI

B. F. FEW.....	1941.....	New York, N. Y.
J. WELCH HARRISS.....	1947.....	High Point, N. C.
W. J. HOBBS.....	1947.....	New York, N. Y.
H. B. PORTER.....	1941.....	Raleigh, N. C.

Term Expires December 31, 1951

E. S. BOWLING.....	1939.....	New York, N. Y.
H. C. DOSS.....	1943.....	Detroit, Mich.
P. F. HANES.....	1948.....	Winston-Salem, N. C.
G. M. IVEY.....	1943.....	Charlotte, N. C.
B. C. NALLE.....	1941.....	Charlotte, N. C.
*M. E. NEWSOM.....	1917.....	Durham, N. C.
W. W. PEELE.....	1921.....	Richmond, Va.
A. H. SANDS, JR.....	1946.....	New York, N. Y.
B. S. WOMBLE.....	1915.....	Winston-Salem, N. C.

### FROM THE ALUMNI

N. E. EDGERTON.....	1941.....	Raleigh, N. C.
AMOS R. KEARNS.....	1945.....	High Point, N. C.
R. A. MAYER.....	1897.....	Charlotte, N. C.
W. A. STANBURY.....	1933.....	Gastonia, N. C.

\* Died, September 14, 1948.

## Term Expires December 31, 1953

N. A. COCKE.....	1947.....	Charlotte,	N. C.
D. S. ELIAS.....	1929.....	Asheville,	N. C.
P. H. HANES.....	1912.....	Winston-Salem,	N. C.
J. L. HORNE, JR.....	1934.....	Rocky Mount,	N. C.
WALKER INMAN.....	1949.....	Georgetown,	S. C.
B. E. JORDAN.....	1943.....	Saxapahaw,	N. C.
J. B. SIDBURY.....	1947.....	Wilmington,	N. C.
*S. B. TURRENTINE.....	1893.....	Greensboro,	N. C.
E. W. WEBB.....	1933.....	New York,	N. Y.

## FROM THE ALUMNI

S. S. ALDERMAN.....	1934.....	Washington,	D. C.
W. N. REYNOLDS.....	1927.....	Winston-Salem,	N. C.
J. H. SEPAK.....	1916.....	Gastonia,	N. C.
WILLIS SMITH, Chairman.....	1929.....	Raleigh,	N. C.

## COMMITTEES OF THE UNIVERSITY TRUSTEES

*Buildings and Grounds:* J. R. Smith, Cherry, Jordan, Kearns.

*Business Administration:* P. H. Hanes, Elias, Reynolds, Kearns, Hobbs, Sands.

*Colleges:* Mayer, Bell, Newsom,† Turrentine,\* P. F. Hanes.

*Divinity School:* Peele, Grant, Porter, Edgerton, Stanbury.

*School of Forestry:* Cherry, Edgerton, Few, J. R. Smith.

*Graduate School:* Webb, Flowers, Doss, Newsom.†

*Law School:* Womble, Cherry, Frizzelle, Alderman, Cocke, P. F. Hanes.

*Library:* Doss, Allen, Separk, Bowling, Harriss.

*Medical School and Hospital:* Elias, Nalle, Horne, Newsom,† Sidbury.

*Physical Education and Athletics:* J. R. Smith, Edgerton, Jordan, Harriss, P. F. Hanes.

*Engineering and Research:* Ivey, Jones, Webb, Jordan, Doss, Sands, Cocke.

*Cooperation with National Council:* Bowling, Sands, Few, Kearns, Hobbs, Flowers.

*Public Relations and Publicity:* Horne, Ivey, Elias, Harriss.

\* Died, April 12, 1949.

† Died, September 14, 1948.

## OFFICERS OF ADMINISTRATION

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### GENERAL ADMINISTRATION

EDENS, ARTHUR HOLLIS, B.Ph., A.M., M.P.A., Ph.D., LL.D. <i>President of the University</i>	West Campus
FLOWERS, ROBERT LEE, A.M., LL.D. <i>Chancellor of the University</i>	West Campus
WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Vice-Chancellor of the University</i>	West Campus
GROSS, PAUL MAGNUS, B.S., A.M., Ph.D. <i>Vice-President in the Educational Division</i>	Hope Valley
JORDAN, CHARLES EDWARD, A.B., LL.D. <i>Vice-President in the Division of Public Relations and Secretary of the University</i>	813 Vickers Avenue
HERRING, HERBERT JAMES, A.B., A.M., LL.D. <i>Vice-President in the Division of Student Life and Dean of Trinity College</i>	Myrtle Drive
BROWER, ALFRED SMITH, A.B. <i>Business Manager and Comptroller</i>	1550 Hermitage Court
MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Treasurer of the University</i>	204 Dillard Street

### BUSINESS ADMINISTRATION

BROWER, ALFRED SMITH, A.B. <i>Business Manager and Comptroller</i>	1550 Hermitage Court
MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Treasurer of the University</i>	204 Dillard Street
JORDAN, CHARLES EDWARD, A.B., LL.D. <i>Secretary of the University</i>	813 Vickers Avenue
HENRICKSEN, GERHARD CHESTER, A.B., A.M., C.P.A. <i>Assistant Business Manager and Assistant Comptroller</i>	216 Forest Wood Drive, Forest Hills

---

WHITFORD, WILLIAM EDWARD, A.B. <i>Director of Operation and Maintenance</i>	804 Third Street
MINAH, THEODORE WARREN, B.S., B.S. in H.M. <i>Manager of Dining Hall Operations</i>	2117 Club Boulevard
DOXEY, JOHN ELLWOOD, A.B., A.M. <i>Purchasing Agent</i>	1004 Broad Street
WELLONS, JESSE DAVID, JR. <i>Manager of Stores Operations</i>	2703 Augusta Drive
COOPER, WALTER GLEN, B.A. <i>Personnel Director</i>	1518 Echo Road

HOWARD, WILLIAM KENNETH, B.S. <i>Maintenance Engineer</i>	106 Pinecrest Road
BOWERS, HENRY FRANKLIN, A.B. <i>Manager of Operations</i>	No. 1 Duke University Apts., Markham and Fifth
HAYWOOD, ERNEST LEE, A.B. <i>Chief Accountant</i>	104 Hilton Avenue
MORGAN, HENRY SPECK, A.B. <i>Chief Clerk, Treasurer's Office</i>	409 Francis Street
COUSINS, JAMES FRANKLIN, A.B., C.P.A. <i>Auditor</i>	416 Carolina Circle
DRAPER, SAMUEL DUANE, B.S., M.B.A. <i>Supervisor, Budgets and Reports</i>	No. 16 Duke University Apts., Markham and Fifth
FEARING, ROBERT BEVERIDGE <i>Adviser, Student Activities</i>	1803 Forest Road
<hr/>	
LAPRADE, WILLIAM T., A.B., Ph.D. <i>Acting Director, Duke University Press</i>	1108 Monmouth Avenue
BRICE, ASHBEL GREEN, A.B., A.M. <i>Editor and Assistant Director, Duke University Press</i>	814 Sixth Street
FIKE, EDWARD L., A.B. <i>Director, Bureau of Public Information</i>	801 Third Street
*BOYDEN, LUCILE K., A.B. <i>Assistant Director, Bureau of Public Information</i>	1212 Arnette Avenue
MANN, GLENN EDWARD, A.B. <i>Director of Sports Publicity</i>	2507 Glendale Avenue
MITCHELL, FANNIE YARBROUGH <i>Director, Appointments Office</i>	1507 West Pettigrew Street
<hr/>	
BOY, CARL A. <i>Superintendent of Utilities</i>	2214 Erwin Road
GIFT, JOHN C. <i>Superintendent of Building Maintenance</i>	811 Fifth Street

### ALUMNI AFFAIRS

DUKES, CHARLES AUBREY, A.B. <i>Director</i>	1309 Oakland Avenue
GARRARD, ANNE, A.B., A.M. <i>Assistant Director</i>	1023 Gloria Avenue
TYREE, WILLIAM ALLEN, A.B. <i>Field Secretary, Duke University Loyalty Fund</i>	610 Buchanan Boulevard
SMITH, CODY HEBER, A.B. <i>Assistant to the Director</i>	2115 W. Club Boulevard
CORBIN, CHARLOTTE, A.B. <i>Assistant to the Director</i>	403 W. Chapel Hill Street
MARSHALL, ROGER, A.B. <i>Alumni Editor</i>	1829 Forest Road
* Resigned, April 15, 1949.	



## EDUCATIONAL ADMINISTRATION

GROSS, PAUL MAGNUS, B.S., A.M., Ph.D.

*Vice-President in the Educational Division*

Hope Valley

## UNDERGRADUATE COLLEGES

HERRING, HERBERT JAMES, A.B., A.M., LL.D.

*Dean of Trinity College*

Myrtle Drive, West Campus

BRINKLEY, ROBERTA FLORENCE, A.B., A.M., Ph.D.

*Dean of the Woman's College*

East Campus

HALL, WILLIAM HOLLAND, A.B., A.M., B.C.E., M.S.C.E.

*Dean of the College of Engineering*

922 Urban Avenue

MANCHESTER, ALAN KREBS, A.B., A.M., Ph.D.

*Dean of Undergraduate Studies*

Myrtle Drive, West Campus

SMITH, MRS. RUTH SLACK, A.B., A.M.

*Dean of Undergraduate Instruction, Woman's College*

East Campus

WEATHERSPOON, EVERETT BROADUS, A.B.

*Director of Admissions, Trinity College and College of Engineering*

125 Pinecrest Road

PERSONS, MRS. ELIZABETH ANDERSON, A.B., A.M.

*Director of Admissions, Woman's College*

612 Swift Avenue

HUCKABEE, ELLEN HARRIS, A.B., A.M.

*Assistant Dean of Undergraduate Instruction, Woman's College*

1507 W. Pettigrew Street

SLAY, JAMES MATTHEW, A.B., M.A.

*Assistant Dean of Trinity College*

1222 Arnette Avenue

COX, ROBERT B., A.B., A.M.

*Assistant Dean of Undergraduate Men*

1107 Ninth Street

ARCHIE, WILLIAM COUNCIL, A.B., A.M.

*Assistant Dean of Trinity College, in Charge of Freshmen*

2113 Sprunt Street

DOZIER, JOHN M., A.B.

*Assistant to the Vice-President in the Division of Public Relations  
(Student Admissions)*

2041 Englewood Avenue

\*OSTWALT, JAY HAROLD

*Assistant Director, Testing Bureau*

Duke University

## GRADUATE AND PROFESSIONAL SCHOOLS

GROSS, PAUL M., B.S., A.M., Ph.D.

*Dean of the Graduate School of Arts and Sciences*

Hope Valley

ROBERT, JOSEPH CLARKE, A.B., A.M., Ph.D.

*Associate Dean of the Graduate School of Arts and Sciences*

1102 B Street

BOSLEY, HAROLD AUGUSTUS, A.B., B.D., Ph.D., D.D.

*Dean of the Divinity School*

1020 Urban Avenue

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.

*Dean Emeritus of the Divinity School*

Duke University

†SHEPHERD, HAROLD, A.B., J.D., LL.D.

*Dean of the School of Law*

Cole Mill Road

LOWNDES, CHARLES LUCIEN BAKER, A.B., LL.B., S.J.D.

*Acting Dean of the School of Law*

2016 Club Boulevard

DAVISON, WILBURT CORNELL, A.B., B.A., B.Sc., A.M., D.Sc., M.D., LL.D.

*Dean of the School of Medicine*

Hope Valley

\* Resigned, August 31, 1948.

† Resigned, effective September 1, 1949.

WILSON, FLORENCE K., R.N., B.A., M.A. <i>Dean of the School of Nursing</i>	Faculty Apartments
KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D. <i>Dean of the School of Forestry</i>	4 Sylvan Road
PROCTOR, ARTHUR MARCUS, A.B., A.M., Ph.D. <i>Director of the Summer Session</i>	Myrtle Drive
*HUMM, HAROLD JUDSON, B.A., M.A., Ph.D. <i>Director of the Duke Marine Laboratory</i>	Marine Station, Beaufort, N. C.
<hr/>	
COLEMAN, MARGARET, A.B., A.M. <i>Recorder, Trinity College</i>	918 Urban Avenue
EHLHARDT, GEORGE B., A.B., B.D. <i>Registrar, Divinity School</i>	Faculty Apartments
SEABOLT, LOUISE, A.B., A.M. <i>Recorder, Woman's College</i>	Faculty Apartments

### INSTRUCTIONAL STAFF

*This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.*

ACOMB, FRANCES DOROTHY, (1945) A.B., A.M., Ph.D. <i>Assistant Professor of History</i>	Faculty Apartments
ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D. <i>Professor of Psychology</i>	Cornwallis Road
ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D. <i>Professor of Botany</i>	1413 N. Duke Street
ADKINS, TROGLER F., (1938) M.D. <i>Instructor in Obstetrics and Gynecology</i>	2108 Sprunt Street
*ALLEN, CLARK LEE, (1941-43; 1945, 1947) A.B., A.M., Ph.D. <i>Associate Professor of Economics</i>	1813 Hillcrest Drive
ALYEA, EDWIN PASCAL, (1930) S.B., M.D. <i>Professor of Urology</i>	Hope Valley
ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D. <i>Associate Professor of Botany</i>	2020 Sunset Avenue
ANDERSON, WILLIAM BANKS, (1930) A.B., M.D. <i>Professor of Ophthalmology</i>	502 E. Forest Hills Blvd.
ARCHIE, WILLIAM COUNCIL, (1946) A.B., A.M. <i>Assistant Professor of Romance Languages</i>	2113 Sprunt Street
ARENA, JAY MORRIS, (1933) B.S., M.D. <i>Assistant Professor of Pediatrics</i>	2032 Club Boulevard
ARNOLD, RALPH A., (1947) B.A., M.D. <i>Assistant Professor of Otolaryngology and Ophthalmology</i>	University Apartments
ASHBROOK, ARTHUR G., JR., (1947) B.S., Ph.D. <i>Assistant Professor of Economics</i>	Faculty Apartment Annex
ATWELL, ROBERT J., (1948) A.B., M.D. <i>Instructor in Medicine</i>	University Apartments
ATWOOD, THEODORE W., (1934) A.B., D.M.D. <i>Associate in Dentistry</i>	Allenton Apartments

\* Resigned, effective September 1, 1949.

- AYCOCK, THOMAS MALCOLM, (1937) B.S., M.S.  
*Professor of Physical Education* University Apartments
- BAILEY, JOSEPH R., (1946) A.B., M.A., Ph.D. No. 11 Duke University Apts.,  
*Assistant Professor of Zoology* Markham and Fifth
- BAKER, HORACE W., JR., (1948) A.B., M.D.  
*Instructor in Surgery* Duke Hospital
- BAKER, LENOX DIAL, (1937) M.D.  
*Professor of Orthopaedic Surgery* Hope Valley
- BALDWIN, ALICE MARY, (1923) A.B., A.M., Ph.D., LL.D.  
*Professor Emeritus of History* Swift Avenue
- BANHAM, KATHARINE MAY, (1946) B.S., M.A., Ph.D.  
*Associate Professor of Psychology* 307 Watts Street
- BAREFOOT, SHERWOOD W., (1946) B.S., M.D.  
*Instructor in Dermatology and Syphilology* Duke Hospital
- BARRERAS, LUIS A., (1947) B.A., M.D.  
*Instructor in Anesthesiology* Duke Hospital
- BAUM, PAUL FRANKLIN, (1922) A.B., A.M., Ph.D.  
*Professor of English* 112 Pinecrest Road
- BAYLIN, GEORGE JAY, (1939) A.B., M.D.  
*Associate Professor of Radiology and Associate in Anatomy* 2260 Cranford Road
- BEACH, WALDO, (1946) A.B., B.D., Ph.D.  
*Associate Professor of Christian Ethics* 100 Vineyard Street
- BEAL, JAMES ALLEN, (1939) B.S., M.S., Ph.D.  
*Professor of Forest Entomology* 2232 Cranford Road
- BEARD, DOROTHY WATERS, MRS., (1938) R.N.  
*Research Associate in Surgery* Hillsboro, N. C.
- BEARD, JOSEPH W., (1937) B.S., M.D.  
*Professor of Surgery in charge of Experimental Surgery* Hillsboro, N. C.
- BENNETT, BASIL T., (1946) M.D.  
*Associate in Neuropsychiatry* Duke Hospital
- BENNETT, PAUL R., (1948) B.A., M.A.  
*Instructor in English* Powe Apartments
- BENNETT, ROBERT L., (1946) M.D.  
*Lecturer in Physical Medicine* Duke Hospital
- BERNHEIM, FREDERICK, (1930) A.B., Ph.D.  
*Professor of Pharmacology* Woodridge Drive, Rockwood
- BERNHEIM, MARY LILIAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Biochemistry* Woodridge Drive, Rockwood
- BERRY, EDWARD WILLARD, (1936) A.B., Ph.D.  
*Associate Professor of Geology* 1003 N. Gregson Street
- \*BEVINGTON, HELEN SMITH, MRS., (1943) Ph.B., M.A.  
*Assistant Professor of English* Guess Road
- †BEVINGTON, MERLE MOWBRAY, (1942) A.B., M.A., Ph.D.  
*Associate Professor of English* Guess Road
- BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.  
*Professor of Chemistry* 131 Pinecrest Road

\* Absent on leave, 1940-50.

† Absent on sabbatical leave, 1949-50.

- BINKLEY, MARGARET B., (1946) R.N., B.S.  
*Assistant Professor of Nursing Education* Duke Hospital
- \*BIRD, HAROLD CRUSIUS, (1926) Ph.B., C.E.  
*Professor of Civil Engineering* 1209 Virginia Avenue
- †BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.  
*Professor of Accounting* 135 Pinecrest Road
- BLACKBURN, WILLIAM MAXWELL, (1926) A.B., B.A., M.A., Ph.D.  
*Associate Professor of English* Duke University
- BLACK-SCHAFER, BERNARD, (1945) B.Sc., M.D.  
*Assistant Professor of Pathology* Piedmont Apartments
- BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.  
*Professor of Botany* 922 Demerius Street
- \*BOLICH, WILLIAM BRYAN, (1927) A.B., B.A. (Juris.), M.A., B.C.L.  
*Professor of Law* Hope Valley
- BOLMEIER, EDWARD C., (1948) A.B., M.A., Ph.D.  
*Associate Professor of Education* Faculty Apartments
- BOND, GEORGE F., (1949) M.D.  
*Instructor in General Practice of Medicine* Duke Hospital
- BONE, ALLAN HADLEY, (1944) B.A., M.M.  
*Assistant Professor of Music* 2314 Club Boulevard
- BONE, FRANK C., (1948) A.B., M.D.  
*Instructor in Medicine* 1023 W. Trinity Avenue
- BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Zoology* 1307 Alabama Avenue
- BOOKHOUT, ELIZABETH CIRCLE, MRS., (1932-43; 1945) A.B., M.S.  
*Associate Professor of Physical Education* 1307 Alabama Avenue
- BOSLEY, HAROLD AUGUSTUS, (1947) A.B., B.D., Ph.D., D.D.  
*Professor of Philosophy of Religion and Dean of Divinity School*  
 1020 Urban Avenue
- ‡BOUTWELL, FREDERICK KENT, (1946) B.S. in M.E.  
*Visiting Instructor in Mechanical Engineering* 618 Ruby Street
- BOWMAN, FRANCIS E., (1945) A.B., M.A., Ph.D.  
*Associate Professor of English* 1503 Alabama Avenue
- BRADSHAW, CHARLES KILGO, (1939) A.B., M.A., Ph.D.  
*Associate Professor of Chemistry* 2318 Englewood Avenue
- BRADWAY, JOHN SAEGER, (1931) A.B., A.M., LL.B.  
*Professor of Law* 2621 Stuart Drive
- BREWER, J. STREET, (1949) M.D.  
*Instructor in General Practice of Medicine* Duke Hospital
- BREWER, ROBERT PALMER, (1949) A.B., Lieutenant, U. S. Navy  
*Assistant Professor of Naval Science* 3030 University Drive
- BRINKLEY, ROBERTA FLORENCE, (1947) A.B., A.M., Ph.D.  
*Professor of English and Dean of the Woman's College* East Campus
- BROOME, ROBERT A., JR., (1948) M.D.  
*Instructor in Medicine* 410 Watts Street
- ‡BROUSE, ALBERT J., (1947) A.B., A.M.  
*Instructor in English* 923½ Dacian Avenue

\* Absent on sabbatical leave, second semester, 1949-50.

† Absent on sabbatical leave, 1949-50.

‡ Resigned, effective September 1, 1949.



- BROWN, CHANDLER WILCOX, (1947) B.S.  
*Instructor in Civil Engineering* 818 Wilkerson Avenue
- BROWN, FRANCES, (1931) A.B., Ph.D.  
*Associate Professor of Chemistry* 205 Jones Street
- BROWN, IVAN W., JR., (1940) A.B., B.S., M.D.  
*Associate in Surgery* 2314 Woodrow Street
- BROWN, W. G., (1947) A.B.  
*Instructor in Preventive Medicine and Public Health* Duke Hospital
- \*BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D., LL.D.  
*Professor of Educational Psychology* Hope Valley
- BROWNLEE, WILLIAM H., (1948) A.B., Ph.D.  
*Instructor of Biblical Literature* 805½ Third Street
- BRYSON, EDWIN CONSTANT, (1931) LL.B.  
*Associate Professor of Law* 1023 Sycamore Street
- BRYSON, THADDEUS DILLARD, (1928) LL.D.  
*Professor Emeritus of Law* Duke University
- BUGG, EVERETT I., JR., (1947) B.S., M.D.  
*Instructor in Orthopaedics* 2806 Legion Avenue
- BURNHAM, HILDA CLAIRE, (1940) R.N.  
*Instructor in Principles and Practice of Nursing and  
Instructor of Nursing Education* Duke Hospital
- CALLAWAY, JASPER LAMAR, (1937) B.S., M.D.  
*Professor of Dermatology and Syphilology* 828 Anderson Street
- CAMERON, EDMUND McCULLOUGH, (1926) A.B.  
*Director of Physical Education and Athletics,  
and Assistant Coach of Football* Hope Valley
- CANINE, WILLIAM L., JR., (1947) A.B., M.A. No. 7 Duke University Apts.,  
*Instructor in English* Markham and Fifth
- CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M., D.D.  
*Ivey Professor of History of Religion and Missions* 803 Second Street
- CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.  
*Professor of Mathematics* 2303 Cranford Road
- CARPENTER, DAVID WILLIAMS, (1929) A.B., A.M., Ph.D.  
*Professor of Physics* 137 Pinecrest Road
- CARR, JOHN WINDER, JR., (1926) A.B., A.M., Ph.D.  
*Professor of Education* 926 Monmouth Avenue
- CARROLL, EBER MALCOLM, (1932) A.B., A.M., Ph.D.  
*Professor of History* University Apartments
- CARROLL, R. CHARMAN, (1943) R.N., A.B., M.D.  
*Associate in Neuropsychiatry* Faculty Apartments
- †CARROLL, ROBERT SPROUL, (1941) M.D.  
*Lecturer in Neuropsychiatry* Asheville, N. C.
- CARTER, BAYARD, (1931) A.B., B.A., M.A., M.D.  
*Professor of Obstetrics and Gynecology* 2111 Myrtle Drive
- CASTELLANO, HELEN, MRS., (1947) A.B., A.M.  
*Instructor in Romance Languages* 805 Third Street
- CASTELLANO, JUAN R., (1947) B.S., Ph.D.  
*Associate Professor of Romance Languages* 805 Third Street

\* Resigned, June 30, 1949.

† Died, June 26, 1949.

- CHEEK, ROMA S., MRS., (1947) A.B., M.A., Ph.D.  
*Instructor in Political Science* 908 Buchanan Boulevard
- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.  
*Professor of Education* 1019 West Markham Avenue
- CHURCH, MARGARET, (1946) A.B., A.M., Ph.D.  
*Instructor in English* Cole Mill Road
- \*CLAMP, JESSE CARL, (1948) A.B., M.A.  
*Instructor in Economics* 306 Northwood Circle
- CLARK, ELON HENRY, (1934)  
*Assistant Professor of Medical Art and Illustration* Guess Road
- †CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D.  
*Professor of New Testament* 1308 Markham Avenue
- CLELAND, JAMES T., (1945) M.A., B.D., Th.M.  
*Professor of Homiletics* 2117 Myrtle Drive
- CLYDE, PAUL HIBBERT, (1937) A.B., A.M., Ph.D.  
*Professor of History* Cole Mill Road
- COHEN, LOUIS DAVID, (1946) B.A., M.A., Ph.D.  
*Assistant Professor of Psychology* 913 Monmouth Avenue
- COILE, THEODORE STANLEY, (1935) B.S.F., M.F., Ph.D.  
*Professor of Forest Soils* Hillsboro Road
- COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.  
*Professor of Political Science* 7 Sylvan Road
- COLLINS, JOHN P., (1948) A.B., M.D.  
*Instructor in Surgery* 812 Green Street
- COLTON, JOEL G., (1947) A.B., M.S., M.A.  
*Instructor in History* University Apartments
- CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.  
*Professor of Mycology and Associate Professor of Bacteriology* Old Cornwallis Road
- CONNERY, ROBERT H., (1949) B.A., M.A., Ph.D.  
*Professor of Public Administration* Duke University
- COOPER, ALBERT DERWIN, (1934) A.B., M.D.  
*Instructor in Medicine* 1006 Dacian Avenue
- COWPER, FREDERICK AUGUSTUS GRANT, (1918) A.B., A.M., Ph.D.  
*Professor of Romance Languages* 1017 Dacian Avenue
- COX, ALBERT WESLEY, (1948) B.S., Lieutenant, U. S. Navy  
*Assistant Professor of Naval Science* 2302 Erwin Road
- CREADICK, ROBERT NOWELL, (1946) A.B., M.D.  
*Assistant Professor of Obstetrics and Gynecology* 2226 Elba Street
- CRUM, MASON, (1930) A.B., Ph.D.  
*Associate Professor of Biblical Literature* 912 Anderson Street
- ‡CURRIE, BRAINERD, (1946) A.B., LL.B., LL.M.  
*Professor of Law* Hope Valley Road
- CURTISS, JOHN SHELTON, (1945) A.B., A.M., Ph.D.  
*Associate Professor of History* 718 Vickers Avenue
- CUSHMAN, ROBERT E., (1945) A.B., B.D., Ph.D.  
*Professor of Systematic Theology* 2122 Englewood Avenue

\* Resigned, June 30, 1949.

† Absent on sabbatical leave, 1949-50.

‡ Resigned, effective September 1, 1949.

- CUTTINO, JOHN TINDALL, (1946) B.S., M.D.  
*Associate in Pathology* . . . 1616 Delaware Avenue
- CUYLER, W. KENNETH, (1938) B.A., M.A., Ph.D.  
*Research Instructor in Obstetrics and Gynecologic  
Laboratory Technics* Garrett Road
- DAI, BINGHAM, (1943) A.B., M.A., Ph.D. 1010 Monmouth Avenue  
*Lecturer in Psychiatry; Professor of Psychology (Part-time)*
- \*DANN, WILLIAM JOHN, (1934) B.Sc., Ph.D., D.Sc.  
*Professor of Nutrition* 113 Pinecrest Road
- DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.  
*Associate Professor of Romance Languages* 2248 Cranford Road
- DAVISON, WILBURT CORNELL, (1927) A.B., B.A., B.Sc., M.A., M.D., D.Sc., LL.D.  
*Professor of Pediatrics and Dean of the School of Medicine* Hope Valley
- DEES, JOHN ESSARY, (1939) B.S., M.D.  
*Associate Professor of Urology* 413 Carolina Circle
- DEES, SUSAN COONS, MRS., (1939) A.B., M.S., M.D.  
*Assistant Professor of Pediatrics* 413 Carolina Circle
- DEMAREST, JEAN-JACQUES, (1948) B.A., M.A.  
*Instructor in Romance Languages* Brookside Apts.,  
821 Demerius Street
- DE TURK, WILLIAM, (1949) A.B., A.M., M.D., Ph.D.  
*Assistant Professor of Pharmacology* Duke Hospital
- †DEWALD, JACOB FREDERICK, (1948) B.S., Ph.D.  
*Instructor in Chemistry* 509 S. Duke Street
- DE VYVER, FRANK TRAVER, (1935) A.B., A.M., Ph.D.  
*Professor of Economics* 8 Sylvan Road
- DICK, MACDONALD, (1932) B.A., M.A., M.D.  
*Assistant Professor of Physiology and Pharmacology  
and Associate in Medicine* Hope Valley Road
- DICKS, RUSSELL L., (1948) A.B., B.D., D.D.  
*Associate Professor of Pastoral Care* 2308 Prince Street
- DORT, WAKEFIELD, (1948) B.S., M.S.  
*Instructor in Geology* Duke University
- DOW, MARIE, MME., (1934) L. ès L., M.A.  
*Instructor in Romance Languages* 2252 Cranford Road
- DOW, NEAL, (1934) A.B., M.A., Ph.D.  
*Assistant Professor of Romance Languages* 2252 Cranford Road
- DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.  
*Associate Professor of Mathematics* 309 Francis Street
- DUKE, KENNETH LINDSAY, (1940) A.B., Ph.D.  
*Assistant Professor of Anatomy* 701 Club Boulevard
- EADIE, GEORGE SHARP, (1930) M.A., M.B., Ph.D.  
*Professor of Physiology and Pharmacology* Hope Valley
- EAGLE, WATT WEEMS, (1930) A.B., M.D.  
*Professor of Otolaryngology* 804 Anderson Street
- EARLE, RALPH, JR., (1948) B.S., Captain, U. S. Navy  
*Professor of Naval Science* 2101 Myrtle Drive

\* Died, December 6, 1948.

† Resigned, June 1, 1949.

- EASLEY, ELEANOR BEAMER, MRS., (1934) B.A., M.A., M.D.  
*Associate in Obstetrics and Gynecology* Guess Road
- EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.  
*Associate Professor of Education* Guess Road
- EDWARDS, CHARLES WILLIAM, (1898) A.B., A.M., M.S.  
*Professor Emeritus of Physics* 406 Buchanan Boulevard
- EGERTON, FRANKLIN NICHOLAS, (1945) A.B., A.M., E.E.  
*Assistant Professor of Electrical Engineering* 411 N. Gregson Street
- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.  
*Professor of Mathematics* 1003 Lamond Avenue
- ELLIS, LEON H., (1947) A.B., LL.B., Ph.D.  
*Lecturer in Political Science* Faculty Apartment Annex
- ENGEL, FRANK LIBMAN, (1947) A.B., M.D.  
*Assistant Professor of Medicine* 2111 Pershing Street
- EPPERSON, JESSE HARRISON, (1930) B.S.  
*Instructor in Preventive Medicine and Public Health* 1601 Hermitage Court
- ERICKSON, CYRUS CONRAD, (1937) B.S., B.M., M.D.  
*Associate Professor of Pathology* 806 Forest Hills Boulevard
- EVERETT, JOHN WENDELL, (1932) A.B., Ph.D.  
*Associate Professor of Anatomy* 2605 University Drive
- FERGUSON, ARTHUR BOWLES, (1939) A.B., Ph.D.  
*Assistant Professor of History* 209 Woodridge Drive
- FERGUSON, GEORGE BURTON, (1937) M.Sc. (Med.), M.D.  
*Associate in Bronchoscopy* Dover Road, Hope Valley
- FETTERS, JAMES CARL, (1949) B.A., Captain, U. S. Marine Corps  
*Assistant Professor of Naval Science* 2403 University Drive
- FITZGERALD, WILLIAM STONE, (1935) A.B., A.M.  
*Instructor Emeritus of English* 603 Watts Street
- FLOWER, ARTHUR H., JR., (1948) A.B., M.D.  
*Instructor in Dermatology and Syphilology* 2617 Hillsboro Road
- FORBUS, WILEY DAVIS, (1930) A.B., M.D.  
*Professor of Pathology* Hope Valley
- FOX, HERBERT JUNIUS, (1940) M.D.  
*Associate in Medicine* Indian Trail
- FRANCE, DOROTHY, (1949) A.B., M.S.  
*Instructor in Physical Education* Duke University
- \*FRENCH, DAVID P., (1947) A.B., A.M.  
*Instructor in English* Faculty Apartments
- FULTON, LEWIS MCLEOD, JR., (1949) B.S., A.M., Ph.D.  
*Instructor in Mathematics* Duke University
- GARDINER, LILLIAN A., (1947) R.N., B.S., M.S.  
*Visiting Professor of Nursing Education* Richmond, Va.
- GARDNER, CLARENCE ELLSWORTH, JR., (1930) A.B., M.D.  
*Professor of Surgery* Hope Valley
- GAULT, LUCILE D., MRS., (1947) B.A., M.A.  
*Instructor in Romance Languages* Greensboro Road,  
Chapel Hill, N. C.

\* Resigned, effective September 1, 1949.



- GERGEN, JOHN JAY, (1936) A.B., A.M., Ph.D.  
*Professor of Mathematics* 2803 Nation Avenue
- GILBERT, ALLAN, (1920) B.A., A.M., Ph.D.  
*Professor of English* 516 Carolina Circle
- GILBERT, KATHARINE EVERETT, MRS., (1930) A.B., A.M., Ph.D., Litt.D.  
*Professor of Philosophy* 516 Carolina Circle
- GIVAN, WALKER F., (1947) B.A., M.A.  
*Instructor in History* 1021 Minerva Avenue
- GLENN, JOHN C., (1949) M.D.  
*Associate in Radiology* Duke Hospital
- GOFFARD, SIDNEY JAMES, (1947) A.B., M.A.  
*Instructor in Psychology* 808 N. Gregson Street
- GOHDES, CLARENCE, (1930) A.B., A.M., Ph.D.  
*Professor of American Literature* 2614 Stuart Drive
- GORDY, WALTER, (1946) A.B., M.A., Ph.D.  
*Professor of Physics* 233 Forest Wood Drive
- GRAHAM, WILLIAM ALEXANDER, (1939) A.B., M.D.  
*Instructor in Obstetrics and Gynecology* 2247 Cranford Road
- \*GRASTY, GEORGE MASON, (1946) A.B., M.A.  
*Instructor in German* Duke University
- \*GRATTAN, MARTHA ZANT, MRS., (1947) A.B.  
*Instructor in Speech* 2013 James Street
- GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.  
*Professor of Zoology* 124 Pinecrest Road
- GREENHILL, MAURICE H., (1940) A.B., M.D.  
*Associate Professor of Neuropsychiatry* Hope Valley
- GREULING, EUGENE, (1948) Ph.D.  
*Assistant Professor of Physics* Chapel Hill Road
- GRIMSON, KEITH S., (1942) B.A., B.S., M.D.  
*Professor of Surgery* Hope Valley
- GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.  
*William Howell Pegram Professor of Chemistry and Dean of  
 Graduate School of Arts and Sciences* Hope Valley
- GROUT, JULIA REBECCA, (1924) A.B., M.S.  
*Professor of Physical Education, Woman's College* 207 Jones Street
- GUSTAFSON, ROBERT BERGSTROM, (1949) Lieutenant, U. S. Navy, B.S.  
*Assistant Professor of Naval Science* Duke University
- HAINES, HOWARD N., (1943) B.S.  
*Visiting Instructor in Engineering Drawing* 2307 Club Boulevard
- \*HAINES, WILLIAM E., (1948) A.B., LL.B.  
*Instructor in Economics* 101 E. Markham Avenue
- HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.  
*Professor of Physiology* 122 Pinecrest Road
- HALL, LOUISE, (1931) B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne  
*Associate Professor of Architecture* 210 Faculty Apartments
- HALL, WILLIAM HOLLAND, (1915) A.B., A.M., B.C.E., M.S.C.E.  
*Professor of Engineering and Dean of the College of Engineering* 922 Urban Avenue

\* Resigned, effective September 1, 1949.

- HALLOWELL, JOHN HAMILTON, (1942) A.B., A.M., Ph.D.  
*Associate Professor of Political Science* 804 Fourth Street
- HAMBLÉN, EDWIN CROWELL, (1931) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology, and  
 Professor of Endocrinology* 810 Forest Hills Boulevard
- \*HAMILTON, JOHN W., (1948) A.B., A.M.  
*Instructor in Romance Languages* 2252 Cranford Road
- HAMILTON, WILLIAM BASKERVILLE, JR., (1936) A.B., A.M., Ph.D.  
*Associate Professor of History* 2256 Cranford Road
- HANDLER, PHILIP, (1939) B.S., M.S., Ph.D.  
*Associate Professor of Biochemistry and Nutrition* 2307 Sprunt Street
- HANNA, FRANK A., (1948) B.A., Ph.M., Ph.D.  
*Associate Professor of Economics* 2239 Cranford Road
- HANSEN-PRÜSS, OSCAR CARL EDVARD, (1930) A.B., M.D.  
*Professor of Medicine in charge of Clinical Microscopy*  
 3 Surry Road, Hope Valley
- HANSON, EARL, (1946) A.B., A.M., Ph.D.  
*Assistant Professor of Political Science* No. 2 Duke University Apts.,  
 Markham and Fifth Streets
- HARDY, WILLIAM MARION, (1946) B.S. in M.E.  
*Instructor in Mechanical Engineering* 1919 Club Boulevard
- †HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D., Sc.D.  
*Professor of Zoology* 811 Watts Street
- HARRAR, ELWOOD SCOTT, (1936) B.S., M.S., Ph.D.  
*Professor of Wood Technology* 2228 Cranford Road
- HARRIS, JEROME SYLVAN, (1936) A.B., M.D.  
*Associate Professor of Pediatrics and Biochemistry* 1007 Rosehill Avenue
- HART, DERYL, (1930) A.B., A.M., M.D.  
*Professor of Surgery* Duke University Road and Highway 751
- HART, HORNE LL NORRIS, (1938) A.B., M.A., Ph.D.  
*Professor of Sociology* Cranford Road
- HARWELL, GEORGE CORBIN, (1935; 1947) A.B., A.M., Ph.D.  
*Assistant Professor of English* Faculty Apartments
- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.  
*Professor of Physics* 708 Buchanan Boulevard
- HATLEY, MARVIN THOMAS, JR., (1946) B.S. in E.E.  
*Visiting Instructor in Electrical Engineering* Duke University
- HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.  
*Professor of Chemistry* 1020 Rosehill Avenue
- HENDRIX, JAMES PAISLEY, (1938) B.S., M.A., M.D.  
*Assistant Professor of Medicine and Therapeutics* 144 Pinecrest Road
- HERBERT, BUEFORD GILBERT, (1949) LL.B., LL.M.  
*Acting Assistant Professor of Law* Duke University
- ‡HESTER, WILLIAM, (1947) A.B., A.M., Ph.D.  
*Instructor in Psychology* Duke University
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.  
*Professor of Anatomy* University Apartments

\* Resigned, effective September 1, 1949.

† Absent on sabbatical leave, first semester, 1949-50.

‡ Resigned, March 1, 1949.

- HICKAM, JOHN BAMBER, (1947) A.B., M.D.  
*Assistant Professor of Medicine* University Apartments
- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., S.T.B., A.M., Ph.D.  
*Professor of Preaching and the Psychology of Religion*  
 921 Markham Avenue
- HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Mathematics* 2712 Legion Avenue
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.  
*Associate Professor of Chemistry* Dixon Road
- HIRSCHMANN, VICTOR R., (1947) M.D.  
*Instructor in Dermatology and Syphilology* Duke Hospital
- HITCH, JOSEPH M., (1946) A.B., M.S., M.D.  
*Associate in Dermatology and Syphilology* Duke Hospital
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Chemistry* 115 Pinecrest Road
- HOFEN, JOSEPH EDWARD, (1949) A.B., A.M.  
*Instructor in German* Duke University
- HOHMAN, LESLIE BENJAMIN, (1946) A.B., M.D.  
*Professor of Neuropsychiatry* 616 Ruby Street
- HOLLAND, BERNARD C., (1948) B.S., M.D.  
*Instructor in Medicine* 711 Anderson Street
- HOLLAND, RAY WALTER, (1947) B.S. in M.E.  
*Instructor in Mechanical Engineering* 704 Buchanan Boulevard
- HOLLEY, I. B., (1947) B.A., M.A., Ph.D. No. 6 Duke University Apts.,  
*Instructor in History* Markham and Fifth
- HOLTON, FRANCES, (1947) B.S., M.A.  
*Instructor in Physical Education* 407 Erwin Apartments
- HOOK, ARNOLD EVANS, (1945) B.S., M.S., Ph.D.  
*Research Associate in Surgery* 1621 Avondale Drive
- HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.  
*Professor of Economics* 1702 Duke University Road
- HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.  
*Professor Emeritus of Law* Duke University
- HORN, EDWARD C., (1946) B.S., A.M., Ph.D.  
*Assistant Professor of Zoology* 2509 Cascadilla Street
- HOWARD, HENRY LEE, (1947) M.D.  
*Instructor in Pathology* Duke Hospital
- HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.  
*Professor of American Literature* 121 Pinecrest Road
- HUMPHREY, DON DOUGAN, (1945) A.B., Ph.D.  
*Professor of Economics* 2802 Legion Avenue
- HUNTER, WANDA SANBORN, MRS., (1947) A.B., M.S., Ph.D.  
*Associate Professor of Zoology* 202 Faculty Apartments
- HUNTING, ROBERT S., (1949) B.A., M.A.  
*Instructor in English* Duke University
- IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon.), M.A., Ph.D.  
*Professor of English* 2707 Legion Avenue

- IRWIN, CHARLES EDWIN, (1946) M.D.  
*Lecturer in Orthopaedic Surgery* Duke Hospital
- JACOBS, JULIAN E., (1947) M.D.  
*Lecturer in Orthopaedics* Duke Hospital
- \*JARNAGIN, MILTON PRESTON, JR., (1948) A.B., A.M.  
*Visiting Instructor in Mathematics* Duke University
- JENKINS, MARIANNA, (1948) A.B., A.M., Ph.D.  
*Visiting Assistant Professor of Art* Chelsea Circle, Hope Valley
- †JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.  
*Professor of Sociology* 143 Pinecrest Road
- JOERG, FREDERICK C., (1947) B.S., M.B.A.  
*Assistant Professor of Economics* Mordecai House, East Campus
- JOHNSON, AMOS N., (1949) M.D.  
*Instructor in General Practice of Medicine* Duke University
- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.  
*Assistant Professor of Zoology* 106 Turrentine Road
- JONES, BARNEY, (1948) A.B., B.D.  
*Instructor in Religion* 820 Demerius Street
- \*JONES, HENRY HUNTER, (1943) A.B., C.E.  
*Visiting Assistant Professor of Engineering* 129 Pinecrest Road
- JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.  
*Assistant Professor of English*  
147 Pinecrest Road, Corner U. S. Highway No. 751
- JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.  
*Professor of Romance Languages* 117 Pincrest Road
- KAISER, HELEN LOUISE, (1943) R.P.T.  
*Instructor in Physical Therapy, in charge of Division of Physical Therapy* 804 Fourth Street
- KEMPNER, WALTER, (1934) M.D.  
*Associate Professor of Medicine* 1505 Virginia Avenue
- KENNEDY, PHILIP EDWARD, (1947) A.B., A.M. No. 3 Duke University Apts.,  
*Instructor in English* Markham and Fifth
- KENYON, VAN LESLIE, JR., (1945) B.S. Route 3,  
*Assistant Professor of Mechanical Engineering* Hillsboro, N. C.
- KLENZ, WILLIAM, (1947) A.B., M.A.  
*Assistant Professor of Music* Duke University
- KLIGER, SAMUEL, (1946) A.B., M.A., Ph.D.  
*Assistant Professor of English* Faculty Apartment Annex
- KOCH, SIGMUND, (1942-1947; 1948) A.B., A.M., Ph.D.  
*Associate Professor of Psychology* 2921 Horton Road
- †KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.  
*Professor of Silviculture and Dean of the School of Forestry* 4 Sylvan Road
- KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.  
*Professor of Botany* 2251 Cranford Road
- KRAMER, ROBERT, (1947) A.B., LL.B.  
*Professor of Law* Guess Road

\* Resigned, effective September 1, 1949.

† Absent on sabbatical leave, first semester, 1949-50.



- KRAYBILL, EDWARD K., (1939) B.S. in E.E., M.S. in E.E.  
*Assistant Professor of Electrical Engineering* 900 Dacian Avenue
- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.  
*Professor Emeritus of German* 2118 Englewood Avenue
- KUDER, G. FREDERICK, (1948) A.B., M.A., Ph.D.  
*Professor of Psychology* 1003 Lamond Avenue
- KUNKLE, E. CHARLES, (1948) B.A., M.D.  
*Assistant Professor of Medicine* Demerius Street
- LA BARRE, WESTON, (1946) A.B., Ph.D.  
*Associate Professor of Anthropology* 1311 Alabama Avenue
- LANDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D.  
*Associate Professor of Economics* 1514 Edgevale Road
- LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.  
*Professor of History* Hope Valley
- LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.  
*Professor of History* 1108 Monmouth Avenue
- \*LA ROE, RACHEL, (1946) A.B., M.A.  
*Instructor in Physics* 1204 Markham Avenue
- LARSH, JOHN E., JR., (1943) A.B., M.S., Sc.D.  
*Associate in Parasitology* Duke Hospital
- LATTY, ELVIN REMUS, (1937) B.S., J.D., J.Sc.D.  
*Professor of Law* Hope Valley
- †LEARY, LEWIS, (1941) B.S., A.M., Ph.D.  
*Associate Professor of American Literature* 2106 Woodrow Street
- LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admin., M.A., Ph.D.  
*Associate Professor of Economic Geography* 123 Pinecrest Road
- LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.  
*Associate Professor of Philosophy* 107 Pinecrest Road
- LEWIS, HAROLD W., (1946) B.S., M.A.  
*Instructor in Physics* 1005 Carolina Avenue
- LEWIS, MODENA, (1933) B.S., M.A.  
*Associate Professor of Physical Education and Dance* 407 Erwin Apartments
- LEWIS, RALPH ELTON, (1941) B.S., M.S. in M.E.  
*Assistant Professor of Mechanical Engineering* 1401 Alabama Avenue
- LIVENGOD, CHARLES H., JR., (1946) A.B., LL.B.  
*Associate Professor of Law* Hope Valley
- LLERENA, MARIO, (1948) B.A., Doctor en Filosofía y Letras (Havana)  
*Instructor in Romance Languages* Duke University Apts.,  
 Markham and Fifth
- ‡LÖWENBACH, HANS, (1940) M.D.  
*Associate Professor of Neuropsychiatry and Physiology* Apex Road
- LONDON, ARTHUR HILL, JR., (1932) B.S., M.D.  
*Associate in Pediatrics* Corner Shepherd and Wells Streets
- LONDON, FREDERICK, (1938) Ph.D., Docteur ès Sciences of the University of  
 Paris  
*Professor of Theoretical Chemistry* 1508 Oakland Avenue

\* Resigned, effective September 1, 1949.

† Absent on sabbatical leave, first semester, 1949-50.

‡ Absent on leave, 1949-50.

- LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.  
*Professor of Law* 2016 Club Boulevard
- \*LUNDEBERG, OLAV K., (1931) A.B., A.M., Ph.D.  
*Professor of Romance Languages* 127 Pinecrest Road
- LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.  
*Professor of Psychology* 803 Second Street
- LYMAN, RICHARD SHERMAN, (1940) B.A., M.D.  
*Professor of Neuropsychiatry* 812 Anderson Street
- McBRYDE, ANGUS, (1931) B.S., M.D.  
*Associate Professor of Pediatrics* 410 Forest Hills Blvd., East
- †McCOLL, JEAN E., (1946) B.S.  
*Instructor in Physical Education* 213 Faculty Apartments
- McCRACKEN, JOSEPH, (1946) A.B., M.D.  
*Instructor in Medicine* 126 Pinecrest Road
- ‡McCRACKEN, MAUDE, (1941) A.B., M.S.  
*Associate in Medical Social Service* 907 N. Mangum Street
- McCREA, FORREST DRAPER, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Physiology and Pharmacology* 1023 Demerius Street
- McDERMOTT, MALCOLM, (1930) A.B., LL.B.  
*Professor of Law* Orange County
- McHUGH, GELOLO, (1946) A.B., A.M., Ph.D.  
*Assistant Professor of Psychology* Erwin Road
- McKENZIE, LIONEL, (1948) A.B., M.A.  
*Assistant Professor of Economics* Demerius Street
- McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.  
*Associate Professor of Philosophy* 1511 Page Street
- McPHERSON, S. D., JR., (1949) B.S., M.D.  
*Instructor in Ophthalmology* 29 Oak Drive
- MACMILLAN, LOUIS DE ROSSET, (1947) A.B., C.P.A.  
*Visiting Associate Professor of Accounting* Duke University
- MAGGS, DOUGLAS BLOUNT, (1930) A.B., J.D., S.J.D.  
*Professor of Law* Hope Valley
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.  
*Associate Professor of History* Myrtle Drive, West Campus
- MANNING, ISAAC HALL, JR., (1939) A.B., M.D.  
*Associate in Medicine* 2311 Wilson Street
- MARKEE, JOSEPH ELDRIDGE, (1943) B.S., Ph.D.  
*Professor of Anatomy* 1015 Demerius Street
- MARKMAN, SIDNEY D., (1947) A.B., M.A., Ph.D. No. 10 Duke University Apts.,  
*Assistant Professor of Art* Markham and Fifth Streets
- MARTIN, DONALD STOVER, (1932) A.B., M.D., M.P.H.  
*Professor of Preventive Medicine and Public Health*  
*and Associate Professor of Bacteriology* 1415 Pennsylvania Avenue
- MARTIN, ELSIE W., MRS., (1930) A.B., M.S.  
*Professor of Dietetics* 206 Faculty Apartments, East Campus

\* Died, August 18, 1948.

† Resigned, effective September 1, 1949.

‡ Resigned, April 1, 1949.

- MARTIN, RUTH CAMPBELL, (1944) B.A., M.D. University Apartments  
*Assistant Professor of Surgery in charge of Anesthesiology*
- MARTIN, VANCE V., (1949) E.E. Duke University  
*Visiting Instructor in Electrical Engineering*
- MASON, CAROLYN, (1949) B.S. Duke University  
*Instructor in Physical Education*
- MATTHEWS, A. MINETTA, (1947) B.A. Faculty Apartments  
*Instructor in Romance Languages*
- MAXWELL, WILLIAM CARY, (1930) A.B., A.M., Ph.D. 142 Pinecrest Road  
*Assistant Professor of German*
- MEIER, OTTO, JR., (1934) B.S. in E.E., M.S., E.E. 916 Monmouth Avenue  
*Associate Professor of Electrical Engineering*
- MEIGS, WALTER, (1949) B.S.A., M.S.A. Duke University  
*Visiting Instructor in Art*
- MELTON, FRANK M., (1948) A.B., M.D. 318 Clark Street  
*Associate in Dermatology*
- MENEFEE, ELIJAH EUGENE, JR., (1940) B.S., M.D. 2207 Cranford Road  
*Assistant Professor of Medicine*
- \*MICKEY, HAROLD CHANDLER, (1936) B.A. 2223 Cranford Road  
*Associate in Hospital Administration*
- MILLER, OSCAR LEE, (1946) M.D. Duke Hospital  
*Lecturer in Orthopaedic Surgery*
- †MITCHELL, FRANK KIRBY, (1926) A.B., A.M. 619 Swift Avenue  
*Associate Professor of English*
- MOODY, JAMES D., (1948) A.B., M.D. 2708 Legion Avenue  
*Instructor in Surgery*
- MORGAN, RALPH PIERPONT, JR., (1946) B.S. in M.E. 2315 Huron Circle  
*Visiting Instructor in Mechanical Engineering*
- ‡MUELLER, EARL GEORGE, (1945) B.M., A.M., M.F.A. 1212 Virginia Avenue  
*Assistant Professor of Art*
- MUELLER, JULIA WILKINSON, MRS., (1939-41; 1946) B.M., M.A. 1212 Virginia Avenue  
*Assistant Professor of Music*
- MURPHY, RICHARD J. F., (1948) B.Sc., M.D., C.M. 1203 Ruffin Street  
*Instructor in Medicine*
- MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M. 141 Pinecrest Road  
*Professor of Biblical Literature*
- MYERS, JACK DUANE, (1947) A.B., M.D. University Apartments  
*Assistant Professor of Medicine*
- NAHM, HELEN, (1946) R.N., B.S., M.S., Ph.D. Faculty Apartments  
*Professor of Nursing Education and Director, Division of Nursing Education*
- NEGLEY, GLENN, (1946) Ph.D. 621 W. Markham Avenue  
*Professor of Philosophy*
- NELSON, ERNEST WILLIAM, (1926) A.B., A.M., Ph.D. 2217 Club Boulevard  
*Associate Professor of History*

\* Resigned, March 1, 1949.

† Absent on sabbatical leave, second semester, 1948-49.

‡ Absent on leave, 1949-50.

- NEURATH, HANS, (1938) Ph.D.  
*Professor of Physical Biochemistry* 2505 Club Boulevard
- NEWSON, HENRY W., (1948) B.S., Ph.D.  
*Professor of Physics* 1301 Sixth Street
- NICHOLSON, WILLIAM McNEAL, (1935) A.B., M.D.  
*Associate Professor of Medicine* 824 Anderson Street
- NIELSEN, WALTER McKINLEY, (1925) B.S. in E.E., Ph.D.  
*Professor of Physics* 139 Pinecrest Road
- NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.  
*Professor of Physics* 2255 Cranford Road
- ODOM, GUY LEARY, (1943) M.D.  
*Associate Professor of Neurosurgery* Hope Valley Road
- OHLSON, JOHN A., (1947) B.S., M.A.  
*Instructor in Psychology* 1005 Buchanan Boulevard
- OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.  
*Professor of Botany* 2642 University Drive, Rockwood
- ORGAIN, EDWARD STEWART, (1934) M.D.  
*Associate Professor of Medicine* Hope Valley
- ORMOND, JESSE MARVIN, (1923) A.B., B.D., D.D.  
*Professor Emeritus of Practical Theology* 110 Pinecrest Road
- PALMER, AUBREY E., (1944) B.S.E., C.E.  
*Assistant Professor in Civil Engineering* 2519 State Street
- \*PARKER, HAROLD TALBOT, (1939) A.B., Ph.D.  
*Assistant Professor of History* Glenn Apartments
- PARKER, JOSEPH B., JR., (1948) B.S., M.D.  
*Instructor in Neuropsychiatry* 609 Colgate Street
- PATTERSON, KARL BACHMAN, (1920) A.B., A.M.  
*Assistant Professor of Mathematics* 1024 Monmouth Avenue
- PATTERSON, ROBERT LEET, (1945) A.B., A.M., B.D., Ph.D.  
*Professor of Philosophy* 1040 West Forest Hills Boulevard
- PATTON, LEWIS, (1926) A.B., Ph.D.  
*Associate Professor of English* 614 Swift Avenue
- PAYNE, LELA M., (1947) B.A., M.A.  
*Instructor in Physical Education* 216 Epworth Inn
- PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D., LL.D.  
*Professor Emeritus of Zoology* Chelsea Circle, Hope Valley
- PEARSE, RICHARD L., (1938) M.D.  
*Instructor in Obstetrics and Gynecology* 1325 Arnette Avenue
- PEELE, TALMADGE LEE, (1939) A.B., M.D.  
*Associate Professor of Anatomy and Associate in Medicine* University Apartments
- PEMBERTON, JOHN DE JARNETTE, JR., (1947) A.B., LL.B.  
*Associate Professor of Law* 1920 Ward Street
- PEPPLER, CHARLES WILLIAM, (1912) A.B., Ph.D.  
*Professor Emeritus of Greek* 406 Buchanan Road
- PERLZWEIG, WILLIAM ALEXANDER, (1930) B.S., A.M., Ph.D.  
*Professor of Biochemistry* Hope Valley

\* Absent on leave, 1949-50.



- PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.  
*Associate Professor of Botany* 2302 Cranford Road
- PERSONS, ELBERT LAPSLEY, (1930) A.B., M.D.  
*Assistant Professor of Medicine and Associate Professor  
 of Preventive Medicine and Public Health* 723 Anderson Street
- PETRY, RAY C., (1937) A.B., A.M., Ph.D., LL.D.  
*Professor of Church History* 128 Pinecrest Road
- PFEIFFER, JOHN B., (1949) B.S., M.D.  
*Instructor in Medicine* Duke Hospital
- PHILLIPS, JAMES HENRY, (1946) A.B., B.D., Ph.D.  
*Assistant Professor of Biblical Literature* No. 15 Duke University  
 Apts., Markham and Fifth Streets
- PICKRELL, KENNETH LEROY, (1943) M.D.  
*Associate Professor of Surgery* 3 Sylvan Road
- POPE, HILDA, (1948) A.B., M.A., Ph.D.  
*Instructor in Bacteriology* 1005 Vickers Avenue
- \*POPE, MARVIN HOYLE, (1947) A.B., A.M.  
*Visiting Instructor in Biblical Literature* 815 Green Street
- POSTON, MARY ALVERTA, (1930) A.M.  
*Instructor in Bacteriology* 512 Watts Street
- POTAT, MARY, (1935) A.B., A.M., Ph.D.  
*Assistant Professor of English* 103 Faculty Apartments
- POWELL, BENJAMIN, (1946) A.B., B.L.S., Ph.D.  
*Librarian* 626 Swift Avenue
- PRATT, LANIER WARD, (1940) A.B., M.A.  
*Instructor in Romance Languages* 2007 Ruffin Street
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.  
*Professor of Education* Myrtle Drive, West Campus
- PUPPEL, A. D., (1949) B.A., M.D.  
*Instructor in Neurology* 1500 Ruffin Street
- RADIN, MAX, (1949) A.B., LL.B., Ph.D.  
*Visiting Assistant Professor of Law* Duke University
- RANEY, RICHARD BEVERLY, (1934) A.B., M.D.  
*Assistant Professor of Orthopaedics* 1110 Shepherd Street
- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.  
*Professor of Political Science* 1107 Knox Street
- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.  
*Professor of Mathematics* 1011 Gloria Avenue
- RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.  
*Professor of Economics* 133 Pinecrest Road
- RAYMOND, MARY LOIS, (1931) A.B., M.A.  
*Assistant Professor of Romance Languages* Faculty Apartments
- REAMER, I. THOMAS, (1931) Ph.G.  
*Instructor in Pharmacy* 2114 Woodrow Street
- REARDON, KENNETH J., (1947) A.B., A.M.  
*Assistant Professor of English* 2610 Duke Homestead Road
- REED, FREDERICK JEROME, (1935) M.E., M.S.  
*Associate Professor of Mechanical Engineering* 2203 Englewood Avenue
- \* Resigned, effective September 1, 1949.

- REES, ENNIS, (1949) A.B., Ph.D.  
*Instructor in English* Duke University
- REEVES, ROBERT JAMES, (1930) A.B., M.D.  
*Professor of Radiology* 920 Anderson Street
- REICHENBERG-HACKETT, WALLY, MRS., (1946) Ph.D.  
*Assistant Professor of Psychology* 2031 Club Boulevard
- \*REYNOLDS, THOMAS D., (1948) B.A., M.A., Ph.D.  
*Instructor in Mathematics* 711 Knox Street
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D. 908 W. Club Boulevard  
*Professor of Psychology; Director of Parapsychology Laboratory*
- RICHARDS, CLAUDE HENRY, JR., (1946) A.B., A.M., Ph.D.  
*Assistant Professor of Political Science* 1407 N. Gregson Street
- ROBBINS, J. ALBERT, JR., (1946) B.A., M.A., Ph.D.  
*Instructor in English* Faculty Apartments
- ROBERT, JOSEPH CLARKE, (1938) A.B., A.M., Ph.D.  
*Professor of History* 1102 B Street
- ROBERTS, HENRY S., JR., (1948) A.B., Ph.D.  
*Assistant Professor of Zoology* RFD Box 595, Duke Homestead Road
- ROBERTS, JOHN H., (1931) A.B., Ph.D.  
*Professor of Mathematics* 2813 Legion Avenue
- ROBERTS, LOUIS CARROLL, (1933) B.S., M.D.  
*Instructor in Urology* 600 N. Gregson Street
- RODNICK, ELIOT H., (1949) B.A., Ph.D.  
*Professor of Psychology* Duke University
- ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D., F.A.A.R.  
*Professor of Latin* 148 Pinecrest Road
- ROPP, THEODORE, (1938) A.B., A.M., Ph.D.  
*Associate Professor of History* 302 Woodridge Drive
- ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.  
*Assistant Professor of Latin and Greek* 603 Watts Street
- ROSS, NORMAN F., (1937) D.D.S.  
*Instructor in Dentistry* Chelsea Circle, Hope Valley
- ROSS, ROBERT ALEXANDER, (1930) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 818 Anderson Street
- ROSS, WILLIAM DEE, JR., (1946) A.B., A.M.  
*Instructor in Economics* University Apartments
- ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.  
*Professor Emeritus of Christian Doctrine* 150 Pinecrest Road
- RUCKER, MARVIN PIERCE, (1941) A.M., M.D., LL.D.  
*Lecturer in Obstetrics and Gynecology* Richmond, Va.
- RUDIN, JOHN J., II, (1945) A.B., B.D., M.A.  
*Assistant Professor of Speech* 810½ North Street
- RUDIN, WALTER, (1949) A.B., M.A., Ph.D.  
*Instructor in Mathematics* Duke University
- RUDISILL, MABEL, (1948) A.B., M.A., Ph.D.  
*Associate Professor of Education* Manchester Apartments

\* Resigned, effective September 1, 1949.

- RUDOLPH, VICTOR JOHN, (1948) B.S., M.F.  
*Assistant Professor of Forest Management* 1104 Ninth Street
- RUFFIN, JULIAN MEADE, (1930) A.B., M.A., M.D.  
*Professor of Medicine* 816 Anderson Street
- RUNDLES, RALPH WAYNE, (1945) A.B., Ph.D., M.D.  
*Assistant Professor of Medicine* 132 Pinecrest Road
- RUNKEL, HOWARD W., (1949) B.A., M.A.  
*Instructor in English* Duke University
- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D., Litt.D.  
*Dean Emeritus of the Divinity School* Duke University
- SANDERS, C. RICHARD, (1937) B.Ph., M.A., Ph.D. No. 5 Duke University  
*Associate Professor of English* Apts., Markham and Fifth Streets
- SAVILLE, EUGENIA CURTIS, MRS., (1947) A.B., M.A. No. 14 Duke University  
*Instructor in Music* Apts., Markham and Fifth Streets
- SAVILLE, LLOYD B., (1946) A.B., M. A. No. 14 Duke University Apts.,  
*Assistant Professor of Economics* Markham and Fifth Streets
- SAWYER, CHARLES HENRY, (1944) A.B., Ph.D.  
*Associate Professor of Anatomy* 2119 Englewood Avenue
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.  
*Professor of Chemistry* 707 Club Boulevard
- \*SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D.  
*Professor of Education* 2247 Cranford Road
- SCHETTTLER, CLARENCE HENRY, (1946) A.B., A.M., Ph.D.  
*Associate Professor of Sociology* 2162 Guess Road
- SCHIEBEL, HERMAN MAX, (1939) A.B., M.D.  
*Associate in Surgery* 1410 Pennsylvania Avenue
- SCHILLER, SARA, (1947) B.S., M.S., Ph.D.  
*Instructor in Medicine* Duke Hospital
- SCHUMACHER, FRANCIS X., (1937) B.S.  
*Professor of Forestry* 6 Sylvan Road
- SCHWERMAN, ESTHER LOUISE, (1947) B.M., A.B., M.A.  
*Assistant Professor of Speech* 1102 Monmouth Avenue
- SCHWERT, GEORGE, JR., (1946) B.A., Ph.D.  
*Assistant Professor of Biochemistry* 615 Colgate Street
- SCOTT, ERNEST F., (1949) D.D., LL.D.  
*Visiting Professor of New Testament* Duke University
- †SEALY, WILL CAMP, (1946) B.S., M.D.  
*Assistant Professor of Surgery* 919 Monmouth Avenue
- ‡SEARS, GERALD W., (1946) B.S., Ph.D. No. 16 Duke University Apts.,  
*Research Associate in Physics* Markham and Fifth Streets
- \*\*SEELEY, WALTER JAMES, (1925) E.E., M.S.  
*Professor of Electrical Engineering* 1005 Urban Avenue
- ††SEGERSON, JOHN ARTHUR, (1948) A.B., M.D.  
*Instructor in Medicine* Duke Hospital

\* Resigned, August 31, 1948.

† Absent on leave, spring and summer quarters, 1949.

‡ Resigned, August 15, 1948.

\*\* Absent on sabbatical leave, second semester, 1949-50.

†† Resigned, June 30, 1949.

- SHARP, D. GORDON, (1939) B.S., M.A., Ph.D. 202 Francis Street  
*Assistant Professor of Biophysics in Experimental Surgery and  
 Biophysicist to Duke Hospital*
- SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D. 917 Green Street  
*Associate Professor of German*
- \*SHEPHERD, HAROLD, (1939) A.B., J.D., LL.D. Cole Mill Road  
*Professor of Law and Dean of the School of Law*
- SHIELDS, JOHN HERMAN, (1926) A.B., A.M. 1315 Vickers Avenue  
*Associate Professor of Accounting*
- SHERWOOD, MILDRED M., (1948) R.N. Baker House  
*Instructor in Pediatrics*
- SHINGLETON, WILLIAM W., (1947) A.B., M.D. Duke Hospital  
*Instructor in Surgery*
- †SHUGERMAN, ABE LOUIS, (1947) B.S., M.B.A., LL.B. Duke University  
*Visiting Assistant Professor of Economics*
- SILVER, GEORGE A., (1948) B.S., M.D. 2005 Arbor Street  
*Instructor in Neuropsychiatry*
- SIMMONS, EDWARD C., (1947) A.B., A.M., Ph.D. 2510 Perkins Road  
*Associate Professor of Economics*
- SIMPSON, WILLIAM HAYS, (1930) A.B., A.M., Ph.D. 1406 Dollar Avenue  
*Associate Professor of Political Science*
- \*SLAUGHTER, GRIMES, (1948) B.S. in E.E. Duke University  
*Instructor in Electrical Engineering*
- SLAY, JAMES MATTHEW, (1946) A.B., M.A. 1222 Arnette Avenue  
*Instructor in Education*
- SMITH, ALEXANDER G., (1946) B.S. Duke University  
*Visiting Instructor in Physics*
- SMITH, DAVID TILLERSON, (1930) A.B., M.D. Hope Valley  
*Professor of Bacteriology and Associate Professor of Medicine*
- SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D., Litt.D. 1523 Hermitage Court  
*Professor of American Religious Thought*
- ‡SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D. 2236 Cranford Road  
*Professor of Economics*
- SMITH, RUTH SLACK, MRS., (1927) A.B., A.M. Faculty Apartments, East Campus  
*Instructor in Education and Dean of Undergraduate  
 Instruction, Woman's College*
- SMITH, SUSAN GOWER, MRS., (1930) A.B., M.A. Hope Valley  
*Associate in Nutrition*
- SMITH, WILLIAM V., (1946) B.S., Ph.D. No. 9 Duke University Apts.,  
 Associate Professor of Physics Markham and Fifth Streets
- SNOW, W. BREWSTER, (1948) B.S., M.S., Sc.D. 1022 W. Trinity Avenue  
*Associate Professor of Civil Engineering*
- SPENCE, BESSIE WHITTED, MRS., (1929) A.B., A.M., B.D. Hope Valley  
*Assistant Professor of Biblical Literature*
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D., Litt.D. Hope Valley  
*Professor of Biblical Literature and Religious Education*
- SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D. 2240 Cranford Road  
*Professor of Economics*

\* Resigned, effective September 1, 1949.

† Resigned, August 15, 1948.

‡ Absent on sabbatical leave, first semester, 1949-50.



- SPONER, HERTHA, (1935) Ph.D.  
*Professor of Physics* Hope Valley
- STANSBURY, DALE F., (1946) B.S., LL.B., J.S.D. 1008 W. Trinity Avenue  
*Professor of Law and Faculty Director of Law Library*
- STARKE, HELEN, (1948) A.B., M.D.  
*Instructor in Medicine* Cole Mill Road
- STEAD, EUGENE ANSON, JR., (1947) B.S., M.D.  
*Florence McAlister Professor of Medicine* 2122 Myrtle Drive
- STEVENS, HARRY R., (1947) A.B., M.A., Ph.D.  
*Assistant Professor of History* Duke University
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.  
*Professor of Old Testament* 1107 Watts Street
- STOCKER, FREDERICK W., (1943) M.D.  
*Assistant Professor of Ophthalmology* 1021 Minerva Avenue
- STODDARD, LELAND DOUGLAS, (1946) A.B., M.D.  
*Instructor in Pathology* 1406 Duke University Road
- STONE, EDWARD, (1949) B.A., M.A.  
*Instructor in English* Duke University
- STONE, MARY, (1949)  
*Instructor in Aesthetics, Art, and Music* Duke University
- STROEBEL, HOWARD A., (1948) B.S., Ph.D.  
*Instructor in Chemistry* Duke University
- STUMPF, WIPPERT A., (1948) B.S., M.A., Ph.D.  
*Associate Professor of Education* 127 Pinecrest Road
- STYRON, CHARLES WOODROW, (1946) B.S., M.D.  
*Associate in Medicine* Duke Hospital
- SUGDEN, HERBERT WILFRED, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of English* University Apartments
- SUITT, ROBERT BURKE, (1940) M.D.  
*Associate in Neuropsychiatry* 1131 Dollar Avenue
- \*SUNDERLAND, ELIZABETH READ, (1939-42, 1943) A.B., A.M., Ph.D.  
*Assistant Professor of Art* Sparger Road
- SUTHERLAND, GEORGE FRASER, (1946) M.D., M.Sc.  
*Visiting Associate Professor of Neuropsychiatry* Forest Hills Boulevard
- SWASEY, MARTHA G., MRS., (1946) B.A., M.A. No. 12 Duke University  
*Instructor in Physical Education* Apts., Markham and Fifth Streets
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D., Litt.D.  
*Professor of History* 116 Pincrest Road
- †TALBERT, ERNEST WILLIAM, (1942) A.B., M.A., Ph.D.  
*Associate Professor of English* Faculty Apartments
- TAYLOR, ALTON ROBERT, (1939) B.S., Ph.D.  
*Research Associate in Surgery* 2117 Club Boulevard
- TAYLOR, HARVEY GRANT, (1945) A.B., A.M., M.D.  
*Associate Professor of Pediatrics and Bacteriology, and*  
*Assistant Dean of Medical School* Route 2, Hillsboro, N. C.

\* Absent on leave, 1949-50.

† Resigned, effective September 1, 1949.

- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Biochemistry and Toxicology*  
 University Drive, Rockwood
- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.  
*Professor of Mathematics* 2215 Cranford Road
- THOMAS, WALTER LEE, JR., (1932) A.B., A.M., M.D.  
*Associate Professor of Obstetrics and Gynecology* 415 Carolina Circle
- THOMPSON, EDGAR TRISTRAM, (1935) A.B., A.M., Ph.D.  
*Professor of Sociology* 138 Pinecrest Road
- THOMSON, ROY BERTRAND, (1938) B.S., M.F., Ph.D.  
*Professor of Forest Economics* 2243 Cranford Road
- \*TRENT, JOSIAH CHARLES, (1939) A.B., M.D.  
*Assistant Professor of Surgery* Fairview and Bivins Streets
- TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Greek* Faculty Apartments
- TURNER, VIOLET HORNER, (1947) B.A., M.D.  
*Instructor in Obstetrics and Gynecology* 2106 Cole Road
- UHRHANE, LUELLA J., (1947) R.N., B.S.  
*Instructor in Health Education* 402 Erwin Apartments
- VAIL, CHARLES ROWE, (1939) B.S. in E.E., M.S. (E.E.)  
*Assistant Professor of Electrical Engineering* 900 Dacian Avenue
- VAN ARSDALL, CLYDE J., JR., (1948) B.S., Commander, U. S. Navy  
*Associate Professor of Naval Science* Randolph Road
- VANCE, MARY HENDREN, MRS., (1926) A.B., A.M.  
*Assistant Professor Emeritus of English* Duke University
- †VAN WAGENEN, RICHARD W., (1947) A.B., M.S., Ph.D.  
*Associate Professor of Political Science* 2017 Sprunt Street
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.  
*Professor of German* 2114 Myrtle Drive, West Campus
- VON BECKERATH, HERBERT, (1935) Ph.D.  
*Professor of Economics and Political Science* Hope Valley
- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.  
*Professor of Chemistry* 2319 Englewood Avenue
- WACKERMAN, ALBERT EDWARD, (1938) B.S., M.F.  
*Professor of Forest Utilization* Dover Road, Hope Valley
- WADE, WALLACE, (1931) A.B.  
*Head Coach of Football* Myrtle Drive, West Campus
- WALTON, ARLEY JOHN, (1948) A.B., B.S.L.  
*Associate Professor of Practical Theology and Director of Field Work* 815 Third Street
- ‡WALTON, LORING BAKER, (1929) A.B., Lic. ès L., Ph.D.  
*Professor of Romance Languages* 2235 Cranford Road
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.  
*Associate Professor of English* Perkins Road
- \*\*WARD, MARGARET CHAPMAN, (1946) A.B., A.M., Ph.D.  
*Instructor in Zoology* 202 Erwin Apartments

\* Died, December 10, 1948.

† Absent on leave, 1949-50.

‡ Absent on sabbatical leave, first semester, 1949-50.

\*\* Resigned, effective September 1, 1949.

WARREN, JOHN RUSH, (1946) A.B., M.S. <i>Instructor in Botany</i>	Old Raleigh Road
WATSON, RICHARD L., JR., (1939) A.B., Ph.D. <i>Assistant Professor of History</i>	1524 London Circle
WAY, VERNON ELGIN, (1930) A.B., A.M., M.A. <i>Assistant Professor of Greek</i>	918 Urban Avenue
WEBB, ALBERT MICAJAH, (1903) A.B., A.M. <i>Professor Emeritus of Romance Languages</i>	1017 Trinity Avenue
WEBB, BAILEY DANIEL, (1949) B.S., M.D. <i>Instructor in Pediatrics</i>	Duke Hospital
*WEBSTER, GRACE, (1947) B.S. in Ed. <i>Instructor in Physical Education</i>	211 Epworth Inn
WEEKS, K. D., (1947) B.S., M.D. <i>Instructor in Medicine</i>	University Apartments
WELSH, PAUL, (1948) A.B., Ph.D. <i>Assistant Professor of Philosophy</i>	Faculty Apartments
WETHERBY, JOSEPH C., (1947) A.B., M.A. <i>Assistant Professor of Speech</i>	1404 Duke University Road
WHARTON, GEORGE WILLARD, JR., (1939) B.S., Ph.D. <i>Associate Professor of Zoology</i>	1202 Oval Drive
WHITE, JOSEPH WARREN, (1946) A.B., M.D. <i>Lecturer in Orthopaedic Surgery</i>	Duke University
WHITE, MARIE ANNE, MRS., (1930) A.B., A.M. <i>Assistant Professor of English</i>	1003 Lamond Avenue
†WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D. <i>Professor of English</i>	1003 Lamond Avenue
WHITRIDGE, EUGENIA R., MRS., (1947) A.B., A.M., Ph.D. <i>Assistant Professor of Sociology</i>	Vesson Street
WIDGERY, ALBAN GREGORY, (1930) B.A., M.A. <i>Professor of Philosophy</i>	St. Catherine, Pinecrest Road
WIEN, JANET, (1949) A.B., M.S. <i>Associate in Medical Social Service</i>	Duke Hospital
WIENER, THOMAS G., (1948) B.A., M.A. <i>Instructor in Russian Language and Literature</i>	Pineview Apts., 803 Demerius Street
WILBUR, KARL MILTON, (1946) A.B., A.M., Ph.D. <i>Associate Professor of Zoology</i>	2414 Club Boulevard
WILBUR, RALPH SYDNEY, (1933) B.S. in M.E., M.E. <i>Professor of Mechanical Engineering</i>	1018 Demerius Street
WILDER, JESSE H., (1948) B.S. in M.E., M.S. <i>Instructor in Civil Engineering</i>	Duke University
WILDER, PELHAM, JR., (1949) A.B., M.A. <i>Instructor in Chemistry</i>	Duke University
WILLIAMS, D. M., (1947) B.S. <i>Lecturer in Preventive Medicine and Public Health</i>	1107 Alabama Avenue
WILLIAMS, JAMES WESLEY, (1937) A.B., B.S. in C.E. <i>Assistant Professor of Civil Engineering</i>	206 Swift Avenue
WILLIAMS, PHILIP, (1949) B.A., M.A., Ph.D. <i>Instructor in English</i>	Duke University

\* Resigned, effective September 1, 1949.

† Died, December 6, 1948.

- WILSON, FLORENCE K., (1946) R.N., B.A., M.A.  
*Professor of Nursing and Dean of the School of Nursing* Faculty Apartments
- WILSON, FREDERICK ELIPHAZ, (1923) A.B., A.M.  
*Associate Professor of German* 1020 Demerius Street
- WILSON, ROBERT NORTH, (1910) A.B., M.S.  
*Professor Emeritus of Chemistry* 822 Third Street
- WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D., LL.D.  
*Professor of Political Science* 717 Anderson Street
- WITHERS, LOREN, (1949) B.M., B.S., M.S.  
*Instructor in Aesthetics, Art, and Music* Duke University
- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D.  
*Professor of Botany* 924 Urban Avenue
- WOOD, JAMES W., (1949) M.D.  
*Instructor in Medicine* Duke Hospital
- WOODHALL, BARNES, (1937) A.B., M.D.  
*Professor of Neurosurgery* Cole Mill Road
- WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.  
*Associate Professor of History* 2648 University Drive
- YATES, WARREN G., (1949) A.B., A.M.  
*Instructor in German* Duke University
- YOUNG, DAVID A., (1946) A.B., M.D.  
*Lecturer in Neuropsychiatry* Duke Hospital
- YOUNG, EDWARD HUDSON, (1923) A.B., A.M.  
*Assistant Professor Emeritus of Romance Languages* Beverly Apartments
- YOUNG, FRANKLIN WOODROW, (1945) A.B., B.D., Ph.D.  
*Assistant Professor of Biblical Theology* No. 13 Duke University  
 Apts., Markham and Fifth Streets
- ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D.  
*Professor of Psychology* Sparger Road
- 
- BRADERMAN, ELIZABETH PARKS, MRS., (1949) A.B.  
*Instructor (Part-time) in English* Duke University
- DAVIS, ROGER BAXTER, Licensed Architect  
*Visiting Instructor (Part-time) in Engineering Drawing* Duke University
- DEENER, DAVID R., (1948) A.B., A.M.  
*Instructor (Part-time) in Political Science* Duke University
- FOERSTER, NORMAN, (1948) A.B., A.M., Litt.D.  
*Visiting Professor (Part-time) in English* Chapel Hill, N. C.
- GARRETT, JAMES RICHARD, (1948) B.S., A.M.  
*Instructor (Part-time) in Mathematics* 305 Northwood Circle
- GUILDS, JOHN C., (1948) A.B., M.A.  
*Instructor (Part-time) in English* Duke University
- HATHORN, GUY B., (1948) A.B., A.M.  
*Instructor (Part-time) in Political Science* Duke University
- HOLDEN, BENJAMIN T., (1948) A.B.  
*Instructor (Part-time) in Economics* Duke University
- LEHMANN, HENRY W., (1948) A.B., LL.B.  
*Instructor (Part-time) in Economics* Duke University



MAGNER, BERTHA A., (1949) B.S., M.A. <i>Instructor (Part-time) in Zoology</i>	Duke University
NAJAM, EDWARD W., (1947) B.A. <i>Instructor (Part-time) in Romance Languages</i>	1506 First Avenue
POWELL, WILLIAM ALLAN, (1949) B.S. <i>Instructor (Part-time) in Chemistry</i>	Duke University
RABIN, DAVID, (1948) B.S. in M.E. <i>Instructor (Part-time) in Mechanical Engineering</i>	2014 Bivins Street
REECE, JAMES B., (1948) A.B. <i>Instructor (Part-time) in English</i>	201 Jones Street
RHODES, STANLEY A., (1949) B.S., M.A. <i>Instructor (Part-time) in Zoology</i>	Duke University
STENTZ, D. A., (September-January, 1947-48) <i>Instructor (Part-time) in Electrical Engineering</i>	103 St. Paul Street
SUTCLIFFE, WILLIAM H., JR., (1949) A.B., M.A. <i>Instructor (Part-time) in Zoology</i>	Duke University
WALKER, ERNEST W., (September 1, 1948-January 31, 1949) <i>Instructor (Part-time) in Economics</i>	Duke University
WALTON, WESLEY W., (1949) <i>Instructor (Part-time) in Education</i>	704 Buchanan Boulevard
WILLIAMS, M. J., (1948) <i>Instructor (Part-time) in Economics</i>	Duke University

## INSTRUCTIONAL ASSISTANTS

BRAWLEY, S. C., JR., (1946) <i>Assistant in Legal Aid Clinic</i>	2305 Club Boulevard
HYLDEBURG, CARLA, (1948) B.A., LL.B. <i>Assistant in Legal Aid Clinic</i>	309 Northwood Circle
KNIGHT, ALTON J., (1938) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	Fish Dam Road
MCCOWN, WALLACE H., (1948) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	Duke University
MASON, MARY LOCHER, MRS., (September, 1947-January 31, 1948) Diploma in Fine Arts, Teachers College, Columbia University <i>Assistant in Education</i>	Cole Mill Road
SANDERS, RICHARD, (1945) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	506 Watts Street

INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION  
TRINITY COLLEGE

AUERBACK, ARNOLD, (1949) B.S. in P.E., M.A. <i>Instructor in Physical Education; Assistant Coach of Basketball</i>	Duke University
*BALEY, JAMES ANTON, (1947) B.S. <i>Instructor in Physical Education</i>	1606 James Street
BLY, JAMES R., (1949) B.S. in Education <i>Instructor in Physical Education</i>	923 Demerius Street

\* Resigned, effective September 1, 1949.

- CALDWELL, HERSCHEL, (1930)  
*Instructor in Physical Education;*  
*Assistant Coach of Football* 908 Markham Avenue
- \*CARD, WILBUR WADE, (1902) A.B.  
*Instructor in Physical Education* 1110 Minerva Avenue
- CHAMBERS, ROBERT LUTHER, (1933) B.S. in Ed.  
*Instructor in Physical Education;*  
*Head Coach of Varsity Track* 2311 Prince Street
- COOMBS, JOHN WESLEY, (1929) B.S., M.A.  
*Instructor in Physical Education;*  
*Head Coach of Varsity Baseball* West Campus
- COX, ROBERT CALVIN, (1942) A.B., M.A.  
*Instructor in Physical Education;*  
*Assistant Coach of Football; Coach of Varsity Tennis* 1826 Guess Road
- FALCONE, CARMEN, (1946) B.S., M.A.  
*Instructor in Physical Education;*  
*Coach of Varsity Wrestling; Assistant in Football* University Apartments
- GERARD, KENNETH, (1931) B.S.  
*Instructor in Physical Education; Director of*  
*Intramural Sports and Coach of Basketball* University Apartments
- HAGLER, ELLIS, (1930) A.B.  
*Instructor in Physical Education; Coach of*  
*Varsity Golf; Assistant Coach of Football* 220 Forest Wood Drive
- HARRISON, FRANCIS PARKS, (1947) A.B., M.A.  
*Instructor in Physical Education; Assistant Coach of Football* 320 Clark Street
- HENDRICKSON, HORACE JAMES, (1949) A.B.  
*Coach of Freshmen* 1026 Minerva Avenue
- HENDRIX, JOHN WILLIAM, (1947) A.B.  
*Instructor in Physical Education;*  
*Coach of Varsity Tennis* 220 Forest Wood Drive
- †HENNEMIER, JOHN MATHIACK, (1945)  
*Instructor in Physical Education;*  
*Assistant Coach of Football* University Apartments
- KARMAZIN, MICHAEL, (1948) A.B.  
*Assistant Coach of Football* 2109 Chapel Hill Road
- LEWIS, HUBERT MURRY, (1937) B.S.  
*Acting Business Manager of Athletics;*  
*Instructor in Physical Education and Track* Pickett Road
- MONTFORT, ROBERT, (1940) B.A.  
*Assistant Instructor in Physical Education* 3300 Cole Mill Road
- PARKER, CLARENCE M., (1947)  
*Assistant Coach of Football* 9 Pratt Street
- PERSONS, WALTER S., (1930) A.B.  
*Instructor in Physical Education; Coach of Swimming;*  
*Coach of Lacrosse* 612 Swift Avenue

\* Died, September 3, 1948.

† Resigned, March 1, 1949.

## THE UNIVERSITY LIBRARIES

## UNIVERSITY LIBRARY

POWELL, BENJAMIN, A.B., B.L.S., Ph.D. <i>Librarian</i>	626 Swift Avenue
CHRIST, ROBERT W., A.B., M.S. <i>Assistant Librarian</i>	1403 Watts Street
BREEDLOVE, JOSEPH PENN, A.B., M.A. <i>Librarian Emeritus</i>	407 Watts Street
<hr/>	
ATKINS, MRS. DOROTHY W., A.B., B.S. in L.S. <i>Serials Cataloger</i>	1700 Markham Avenue
BALDWIN, MRS. MILDRED K. <i>Assistant in charge of Binding</i>	1507 Pettigrew Street
BITTING, MARY ELIZABETH, A.B., M.A., A.B. in L.S. <i>Subject Cataloger</i>	2105 Club Boulevard
BLAKELY, FLORENCE E., B.A., B.S. in L.S. <i>Reference Librarian</i>	1107 Watts Street
BURKHALTER, VIRGINIA N. <i>Assistant, Serials Section</i>	517 McMannen Street
CONE, PAULINE, A.B. <i>Assistant, Manuscripts</i>	Duke University
COVINGTON, LENA, A.B., A.B. in L.S. <i>Classifier</i>	403 Watts Street
CROWELL, MRS. WILMA R., B.A. <i>Assistant Periodicals Librarian</i>	Epworth Inn
EVANS, ESTHER, A.B., B.S. in L.S. <i>Subject Cataloger</i>	1107 Urban Avenue
GEER, ELIZABETH D., A.B., B.S. in L.S. <i>Reference Librarian</i>	Duke University
GITLIN, MRS. ETHEL R., B.A. <i>Librarian, Physics-Mathematics</i>	2511 Roxboro Road
HENDRICKS, MARY ELIZABETH, A.B. <i>Assistant, Order Section</i>	402 Buchanan Boulevard
HIX, EDWIN J., B.A., A.B. in L.S. <i>Bibliographer</i>	812 Fourth Street
KALE, MRS. ETHEL LONG <i>Librarian, Engineering</i>	Chapel Hill Road
KING, MRS. FRANCES L., A.B., B.S. in L.S. <i>Descriptive Cataloger</i>	Apt. 1-A Piedmont Village, Creedmoor, N. C.
KIRKLAND, DOROTHY F., A.B., A.B. in L.S. <i>Descriptive Cataloger</i>	208 Jones Street
LEMEN, WILHELMINA, A.B., A.B. in L.S. <i>Documents Librarian</i>	2714 Shenandoah Avenue
MANER, ADELAIDE S., A.B., B.S. in L.S. <i>Subject Cataloger</i>	208 Buchanan Boulevard
MERRITT, GERTRUDE, A. B. <i>Chief, Technical Processing</i>	Powe Apts., Watts Street

- MEYERS, EDWARD J.  
*Subject Cataloger* 102 Forest Wood Drive
- OYLER, HELEN E., A.B., B.S. in L.S.  
*Head, Serials Section* 512 Watts Street
- PADEN, ERMA E., A.B., B.S. in L.S.  
*Subject Cataloger* Duke University
- PARKER, MARY ELEANOR, B.A., B.S. in L.S.  
*Descriptive Cataloger* 801 Third Street
- PARKER, WIXIE E., A.B., B.S. in L.S.  
*Periodicals Librarian* Powe Apartments, Watts Street
- PFEIFFER, MRS. RUTH E., A.B.  
*Assistant, Circulation Department* Box 5415 Duke Station
- PINGREE, MRS. MARYLIN, B.S.  
*Assistant, Newspaper Room* 305½ N. Roxboro Street
- FLOWDEN, MARY E., A.B., A.B. in L.S.  
*Head, Order Section* 1014 Broad Street
- PROCTOR, ELLA ANNE, A.B.  
*Librarian, Chemistry* New Raleigh Road
- RAMAGE, ALLENE, A.B., B.S. in L.S.  
*Newspaper and Film Librarian* 1003 Monmouth Avenue
- ROBERTS, E. GRAHAM, B.A., B.A. in L.S.  
*Curator of Manuscripts* 2009 Club Boulevard
- ROSE, HONORA L.  
*Assistant, Order Section* 108 W. Geer Street
- RUSSELL, MATTIE, B.A., M.A.  
*Assistant Curator of Manuscripts* 2209 Woodrow Street
- SHUFORD, MARY OPAL, A.B., A.B. in L.S.  
*Descriptive Cataloger* 805 Sixth Street
- SIMCOE, LUCILLE, A.B., B.S. in L.S.  
*Acting Head, Reference Department* 1004 W. Trinity Avenue
- SIMKINS, THOMAS M., JR., A.B., A.B. in L.S., M.A.  
*Curator of Rare Books* 801 Third Street
- STEVENS, SHIRLEY  
*Assistant, Documents* 6 Sylvan Road
- STONE, MRS. MARY C., A.B., A.M.  
*Undergraduate Librarian* 1312 Second Street
- STURGEON, JANE, B.S., B.S. in L.S.  
*Head, Descriptive Cataloging Section* 1014 Broad Street
- THOMPSON, MRS. ANNE S., A.B.  
*Assistant, Serials* 806 Third Street
- WAGGONER, J. P., JR., A.B., B.D., B.S. in L.S.  
*Head, Circulation Department* 605 Tiona Avenue
- WALKER, ANNA JEAN, A.B.  
*Assistant, Circulation Department* 1103 Knox Street
- WEHMEIER, MRS. JANICE T.  
*Bookkeeper* 121 W. Lynch Street



- WESCOTT, MARY, A.B., B.S. in L.S.  
*Head, Subject Cataloging* 903 Sixth Street
- WILLIAMS, ETHEL M., A.B., A.B. in L.S.  
*Serials Cataloger* Duke University
- 

## DIVINITY SCHOOL LIBRARY

- EHLHARDT, GEORGE B., A.B., B.D.  
*Librarian* Faculty Apartments
- TANAKA, ISAWO, A.B., B.D., M.A.  
*Assistant Librarian* 1804 W. Markham Avenue
- 

## WOMAN'S COLLEGE LIBRARY

- HARRISON, EVELYN J., A.B., B.S. in L.S.  
*Librarian* 403 Watts Street
- GRIGGS, MRS. LILLIAN B., B.A. in L.S.  
*Librarian Emeritus* 915 Monmouth Avenue
- HICKS, MRS. SPEARS, A.B., B.S. in L.S.  
*Reference Librarian* 121 W. Seeman Street
- LEWTER, FLORINE, A.B., A.B. in L.S.  
*Periodicals Librarian* 708 Parker Street
- FARMER, MRS. FLORENCE G., A.B.  
*Assistant, Circulation Department* 1403 N. Duke Street
- TILLET, MARGARET, S.A.B., A.B. in L.S.  
*Circulation Librarian* 1405 N. Mangum Street
- TYSINGER, CATHERINE V., A.B., B.S. in L.S.  
*Cataloger* 1007 W. Trinity Avenue
- 

## LAW LIBRARY

- LONG, MARIANNA, A.B., B.S. in L.S.  
*Librarian* 403 Watts Street
- COPELAND, MADELINE, A.B., A.B. in L.S.  
*Cataloger* 1018 Monmouth Avenue
- DAY, KATHERINE, B.S.  
*Assistant Librarian in charge of Acquisitions* 512 Watts Street
- 

## MEDICAL SCHOOL LIBRARY

- FARRAR, JUDITH, A.B., B.S.  
*Librarian* 117 Faculty Apartments, East Campus
- 

## UNIVERSITY CHAPEL—RELIGIOUS ACTIVITIES

## PREACHERS TO THE UNIVERSITY

- HICKMAN, FRANKLIN SIMPSON, A.B., S.T.B., A.M., Ph.D.  
 921 Markham Avenue
- CLELAND, JAMES T., M.A., B.D., Th.M.  
 2117 Myrtle Drive
- BOSLEY, HAROLD A., A.B., B.D., Ph.D., D.D.  
 1020 Urban Avenue
-

BARNES, JAMES FOSTER, A.B., A.M. <i>Director of Choral Music</i>	2401 Cranford Road
BREES, ANTON <i>University Carillonneur</i>	Duke University
HENDRIX, MILDRED LITTLE, MRS., B.S. <i>University Organist</i>	144 Pinecrest Road
PHILLIPS, JAMES HENRY, A.B., B.D., Ph.D. <i>Director of Religious Activities</i>	No. 15 Duke University Apts., Markham and Fifth
SAMPLEY, ETHELENE <i>Director of Religious Activities, Woman's College</i>	Faculty Apartments

#### RELIGIOUS ACTIVITIES STAFF WORKERS

Presbyterian—GIBBS, NORMAN, A.B., B.D.	Rt. 2, Cole Mill Road
Baptist—PARKES, KLEIN E., A.B., B.D.	1107 Georgia Avenue
Methodist—RAINWATER, ROLAND W., A.B., B.D.	1023 Gloria Avenue
Lutheran—SHEALY, CHARLES J., A.B., B.D.	210 W. Geer Street
Episcopal—WORKMAN, GEORGE A., A.B., B.D.	903 W. Markham Avenue

#### PHYSICAL EDUCATION AND STUDENT HEALTH

CAMERON, EDMUND McCULLOUGH, A.B. <i>Director of Physical Education and Athletics, West Campus</i>	Hope Valley
HILL, DAN WINFIELD, A.B. <i>Assistant to the Athletic Director</i>	2427 Glendale Avenue
GROUT, JULIA REBECCA, A.B., M.S. <i>Professor of Physical Education, Woman's College</i>	205 Jones Street
PERSONS, ELBERT LAPSLEY, A.B., M.D. <i>Director of Student Health</i>	723 Anderson Street
HELMICK, CAROLINE E., A.B., M.D. <i>Director of Student Health, Woman's College</i>	Duke University
*SMITH, ERMA ANITA, A.B., M.A., Ph.D., M.D. <i>Director of Student Health, Woman's College</i>	Duke University
TAJCHMAN, VERA, R. N. <i>Resident Nurse, Woman's College</i>	East Campus Infirmary
VESTAL, MOZELLE, R.N. <i>Resident Nurse, Woman's College</i>	East Campus Infirmary
JONES, JULIA WOOTEN, R.N. <i>Resident Nurse, West Campus</i>	University Apartments

#### MUSICAL ORGANIZATIONS AND ART EXHIBITIONS

BARNES, JAMES FOSTER, A.B., A.M. <i>Director of Chapel Choir and Men's Glee Clubs</i>	2401 Cranford Road
BARNES, MRS. JAMES FOSTER <i>Director of Women's Glee Club</i>	2401 Cranford Road
SAVILLE, MRS. EUGENIA, B.S., M.A. <i>Director of the Madrigal Singers</i>	Markham Avenue and Fifth Street

\* Resigned, June 30, 1949.

- BONE, ALLAN H., B.A., M.M.  
*Director of the Concert and Marching Bands, the Chamber Orchestra, the Symphony Orchestra* 2314 Club Boulevard
- \*GATLING, EVA INGERSOLL, B.A., M.A.  
*Director of Exhibitions and Supervisor of Art Equipment* Hillsboro, N. C.

## RESIDENCE

- WILSON, MARY GRACE, A.B.  
*Dean of Residence, Woman's College* Faculty Apartments
- WHITAKER, MRS. FRANCES M., A.B., A.M.  
*Assistant to Dean of Residence; Counselor Brown House* Brown House
- PEMBERTON, MRS. MARY NORCUTT  
*Hostess, West Campus* West Campus Union
- BARNES, EVELYN, B.S.  
*Counselor, Alsbaugh House* Alsbaugh House
- BARNWELL, POLLY, A.B.  
*Counselor, Pegram House* Pegram House
- BOLTON, ELIZABETH, A.B., M.A.  
*Counselor, Southgate House* Southgate House
- BRACKMAN, JEAN, B.S.  
*Counselor, Bassett House* Bassett House
- †GEORGE, BEATRICE, A.B.  
*Counselor, Southgate House* Southgate House
- †HEISER, LOIS, A.B.  
*Counselor, Bassett House* Bassett House
- RICHARDS, MARTHA, A.B.  
*Counselor, Aycock House* Aycock House
- TAYLOR, MRS. HARRIET  
*Counselor, Giles House* Giles House
- †THOMAS, MRS. J. MADISON, A.B.  
*Counselor, Aycock House* Aycock House
- WELLBORN, MARY MOSS, A.B.  
*Counselor, Jarvis House* Jarvis House

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*Production Supervisor, the Dining Halls, Men's College*
- HOWE, ISABELLE, B.S.  
*Manager, the Dining Halls, Woman's College* 111 Watts Street
- MORGAN, RUBY, B.S.  
*Service Supervisor, the Dining Halls, Men's College* Southgate House
- COX, JAMES O., JR.  
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- KNUDSEN, MRS. CHRISTIE K., B.S.  
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\* Resigned, June 30, 1949.

† Resigned, June 30, 1948.

BORING, MRS. HAL <i>Supervisor of Dormitories, West Campus</i>	115 Watts Street
CARTER, MRS. VIRGINIA R. <i>Supervisor of Dormitories, East Campus</i>	Duke University
HOOKE, MRS. MARY R. <i>Supervisor of Dormitories, East Campus</i>	Powe Apartments, Buchanan Boulevard
LEA, MRS. BEULAH C. <i>Supervisor of Dormitories, West Campus</i>	1920 Chapel Hill Road
LONG, MRS. R. T. <i>Supervisor of Dormitories, West Campus</i>	705 Shepherd Street
<hr/>	
*ALDRIDGE, FRED SOULE, A.B., A.M. <i>Chaplain of Duke Hospital and Director of the Golden Cross</i>	East Campus
DICKS, RUSSELL L., A.B., B.D., D.D. <i>Chaplain of Duke Hospital</i>	2308 Prince Street

## FELLOWS AND GRADUATE ASSISTANTS

### UNIVERSITY FELLOWS

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
BEATSON, JAMES ALLEN A.B., A.M., Duke University	History	Manning, S. C.
CUCULO, JOHN ANTHONY B.S., Brown University	Chemistry	Durham, N. C.
FROSTICK, FREDERICK CHARLES, JR. B.S., Duke University	Chemistry	Maxton, N. C.
FULTON, LEWIS MCLEOD, JR. B.A., Mt. Allison University; A.M., Duke University	Mathematics	Durham, N. C.
GENTRY, IVEY CLENTON B.S., Wake Forest College; B.S., New York University; A.M., Duke University	Mathematics	Roxboro, N. C.
GOAD, WALTER BENSON, JR. B.S., Union College	Physics	Kinston, N. C.
GORDON, MORRIS AARON B.S., The College of the City of New York; M.S., The University of Chicago	Botany	Jamaica, N. Y.
HOLT, ROBERT LE ROI B.A., M.A., Wake Forest College	Religion	Durham, N. C.
HUSTON, HOLLIS WILBURN A.B., Willamette University; B.D., Duke University	Religion	Salem, Ore.
KEEVER, NANCY CATHERINE A.B., A.M., Duke University	Botany	Stony Point, N. C.
KYLE, JOSEPH BURCH A.B., Linfield College; A.M., University of Oregon	History	Eugene, Ore.
LEHMANN, DOLORES A.B. Brooklyn College; A.M., Columbia University	Zoology	Brooklyn, N. Y.

\* Died, October 2, 1948.



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NEWBERRY, EUGENE WILSON A.B., Denison University	Religion	New Boston, Ohio
PIERSON, ROBERT MALCOLM A.B., DePauw University; A.M., Duke University	English	Greencastle, Ind.
REYNOLDS, GEORGE ARTHUR B.S., University of Florida	Chemistry	West Palm Beach, Fla.
RUDIN, WALTER A.B., A.M., Duke University	Mathematics	New York, N. Y.
SMITH, LAWRENCE JOSEPH B.S. in Ag. Ec., Iowa State College	Education	Richwood, W. Va.
STONE, EDWARD B.A., M.A., University of Texas	English	Newark, N. J.
SUTCLIFFE, WILLIAM HUMPHREY, JR. A.B., Emory University; A.M., Duke University	Zoology	Miami, Fla.
TAYLOR, ORVILLE WALTERS A.B., Ouachita College; M.A., University of Kentucky	History	Little Rock, Ark.
WETHINGTON, LEWIS ELBERT B.A., Wake Forest College; B.D., Duke University	Religion	Durham, N. C.
WILES, CHARLES PRESTON A.B., Washington College	Religion	Brunswick, Md.

## GRADUATE ASSISTANTS

ADAMS, MARTHA JEAN B.A., Woman's College, University of North Carolina	Romance Languages	Winston-Salem, N. C.
ALFRIEND, GENEVIEVE B.A., Mary Washington College	Romance Languages	Charles Town, W. Va.
ALLEN, WILLIAM RICHARD B.A., Cornell College, Iowa	Economics	Chicago, Ill.
BALL, CARROLL RAYBOURNE B.A., M.S., University of Mississippi	Zoology	Montrose, Miss.
BASHAM, JANET GRAY BROOKS A.B., Woman's College, University of North Carolina	Psychology	Greensboro, N. C.
BATTLE, GUY ARTHUR, JR. A.B., A.M., Duke University	English	Sumter, S. C.
BENNETT, WILLIAM LEFFIS B.A., Wake Forest College	History	Shalotte, N. C.
BERGER, SUZANNE HARDING B.S., George Washington University	Zoology	Cobelskill, N. Y.
BIRGE, WILLIAM ROOT A.B., Princeton University	Psychology	Northampton, Mass.
BONNEN, JAMES THOMAS B.A., Texas Agricultural and Mechanical College	Economics	College Station, Texas
BORMANN, FREDERICK HERBERT B.S., Rutgers University	Botany	Westwood, N. J.
BROWNELL, ROBERT FOOTE, JR. B.A., Williams College	Physics	Jamestown, N. Y.
BURKHALTER, JAMES HERBERT A.B., Emory University; M.S., Georgia School of Technology	Physics	Rome, Ga.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
BUSSELL, WILSIE FLORENCE A.B., A.M., Duke University	Romance Languages	Durham, N. C.
CANON, ALFRED ORVILLE, JR. A.B., Southwestern College at Memphis	Political Science	Memphis, Tenn.
CATO, BENJAMIN RALPH, JR. A.B., Duke University	Mathematics	Charlotte, N. C.
CHREITZBERG, AUGUSTUS MCKEE, JR. B.S., Wofford College	Chemistry	Spartanburg, S. C.
COFRESI, EMILIO B.A., West Virginia University; M.A., University of Illinois	Sociology	Mayagues, P. R.
COX, DON KNOWLTON B.S., University of Nevada	Botany	Reno, Nev.
*CREAMER, BOYCE HARRY A.B., Furman University; Th.B., Tennessee	Sociology God's Bible College; M.A., University of	Anderson, S. C.
CROWELL, ROBERT MERRILL A.B., M.A., Bowling Green University	Zoology	Canton, Ohio
DAVIS, MARGARET LEONE B.A., Hunter College	Sociology	New York, N. Y.
DELHOMME, GEORGE ARTHUR, JR. B.A., University of Toronto	English	Houston, Texas
ELLIOTT, DON RINGGOLD B.A., Henderson State Teachers College	Political Science	Arkadelphia, Ark.
FARTHING, CARRIE LEE B.S., Appalachian State Teachers College	English	Boone, N. C.
FARTHING, MADELINE A.B., Woman's College, University of North Carolina; M.Ed., Duke University	Education	Sugar Grove, N. C.
GANNON, PHILIP JEROME B.A., Albion College	Zoology	Detroit, Mich.
GANTZ, BESSIE MCGLOTHLIN B.S. in Ed., State Teachers College, Farmville, Va.	Education	Ballsville, Va.
GOLDSTONE, SANFORD B.S., The College of the City of New York	Psychology	New York, N. Y.
GORDON, HAROLD DUNBAR B.S., Wheaton College	Political Science	Bridgehampton, N. Y.
GREEN, CLAUDE BETHUNE A.B., M.A., University of Georgia	English	Clemson, S. C.
GREEN, RALPH TILLMAN A.B., M.S., Agricultural and Mechanical College of Texas	Economics	Paxton, Texas
GREENHOW, CHARLES RICHARD B.S.E.E., North Carolina State College	Physics	Covington, Ky.
GUSTAFSON, OSCAR THADDEUS B.A., Macalester College	Education	Panama City, Fla.
HANCE, CHARLES ROBERT B.S., University of Illinois	Chemistry	Marengo, Ill.

\* Resigned, February 1, 1949.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
HANCOCK, CAROLYN LOIS A.B., Georgia State College for Women	Sociology	Atlanta, Ga.
HARRIS, JAMES THURLOE, JR. B.S., The Citadel	Chemistry	Spartanburg, S. C.
HARRIS, ROBERT LEIGH A.B., A.M., University of Alabama	History	Tuscaloosa, Ala.
HERBST, ROBERT TAYLOR A.B., Duke University; M.S., North Carolina State College	Mathematics	Newport News, Va.
HOGG, PHYLLIS A.B., Connecticut College	English	Elizabeth, N. J.
HONES, EDWARD WHEELER, JR. B.S., Duke University	Physics	Durham, N. C.
JAMES, KEITH WARREN B.A., Wake Forest College	Philosophy	Oakboro, N. C.
JONES, NORMA LOUISE B.A., Hiram College	Romance Languages	Orwell, Ohio
JONES, ORA MELINDA MARDELL A.B., University of Georgia	Psychology	Jonesboro, Ga.
JUDGE, WILLIAM ARTHUR B.S., Loyola College	Chemistry	Baltimore, Md.
KEIRCE, WILLIAM F. B.M.E., University of Louisville	English	Louisville, Ky.
KOHN, EDWARD MAURICE B.S., The College of the City of New York	Chemistry	New York, N. Y.
LABORDE, IRENE B.A., M.A., University of South Carolina	English	Columbia, S. C.
LANDAU, LAWRENCE B.S., The College of the City of New York	Chemistry	New York, N. Y.
LANGEN, ROBERT FRANCIS A.B., Duke University	Psychology	Durham, N. C.
LAWTON, ROBERT OSWALD, JR. A.B., A.M., Duke University	English	Greenwood, S. C.
LEWIS, EDITH WINIFRED A.B., Georgia State College for Women	Sociology	Vidalia, Ga.
LIND, EDWARD LOUIS Sc.B., Brown University; A.M., Duke University	Chemistry	Whitestone, L. I., N. Y.
MCCAIN, PAUL MOFFATT B.A., Erskine College; A.M., Duke University	History	Decatur, Ga.
McCOURY, PHILLIP DEWEY B.A., Reed College	Economics	Chicago, Ill.
MAGNER, BERTHA ARDYS B.S., University of Miami	Zoology	Miami, Fla.
MANLOVE, GEORGE KENDALL B.A., M.A., Oberlin College	English	Chagrin Falls, Ohio
*MARTIN, JAMES EDWIN A.B., Mercer University; M.S., University of Georgia	Physics	Waynesboro, Ga.

• Resigned, November 30, 1948.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
MEEKS, MARION LITTLETON B.S., M.S., Georgia School of Technology	Physics	Atlanta, Ga.
MUNSTER, RALF F. W. A.B., Duke University	Philosophy	Savannah, Ga.
NEASE, FELTON REESE B.A., M.S., University of Oklahoma	Botany	Lawton, Okla.
OLIVER, JOHN BURRELL A.B., A.M., University of North Carolina	History	College Park, Ga.
PORTER, BERNARD B.S., The College of the City of New York	Chemistry	Bronx, N. Y.
PORTER, HARDIN KIBBE B.S., University of Texas; M.S., Georgia School of Technology	Chemistry	Philadelphia, Pa.
POTTER, RICHARD AUSTIN B.S., Rollins College	Chemistry	Winter Park, Fla.
REECE, JAMES BRADY A.B., The Johns Hopkins University	English	Lenoir, N. C.
RENTZ, THOMAS EUGENE A.B., Duke University	Romance Languages	Columbus, Ga.
RHODES, STANLEY ALLEN B.S. in Ed., A.M., University of Virginia	Zoology	Norfolk, Va.
ROBERTSON, PATRICIA RUTH B.A., Smith College	English	Washington, D. C.
ROSOFF, MORTON B.A., Brooklyn College	Chemistry	Brooklyn, N. Y.
RUST, NONA MARTIN B.A., Huntington College	German	Columbus, Ga.
SASTRI, M. LAKSHMI N. B.Sc., M.Sc., Benares Hindu University	Physics	Madras Province, India
SCHMIDT-BAEUMLER, LUISE A.B., Swarthmore College	Zoology	New York, N. Y.
SIDDALL, THOMAS HENRY, III A.B., University of North Carolina; M.S., University of Chicago	Chemistry	Sumter, S. C.
SILVA, JOSEPH ANDREW B.S., Northeastern University	Mathematics	Lexington, Mass.
STALZER, ROBERT FREDRICK B.S., Kent State University	Chemistry	Cuyahoga Falls, Ohio
STINSON, EDGAR FRANKLIN, JR. B.A., M.S., East Texas State Teachers College	Chemistry	Marshall, Texas
SULZER, RICHARD LEE A.B., Duke University	Psychology	South Norwalk, Conn.
SWERLICK, ISADORE A.B., Temple University	Chemistry	Philadelphia, Pa.
TARLTON, WILLIAM SAMUEL B.A., M.A., Wake Forest College	History	Marshville, N. C.
*TERRELL, JAMES ELMER B.A., University of Arkansas	English	Huttig, Ark.

\* Resigned, December 3, 1948.



<i>Name</i>	<i>Department</i>	<i>Home Address</i>
THOMPSON, EARLE CROSLAND A.B., Union University, Jackson, Tenn.	History	Plantersville, Miss.
THUMM, BYRON ASHLEY B.S., Morris-Harvey College	Chemistry	Charleston, W. Va.
TROUTMAN, WILLIAM FIFE, JR. B.S., Western Carolina Teachers College; A.M., Duke University	Political Science	Asheville, N. C.
TYCZKOWSKI, EDWARD ALBERT B.Sc., Brown University	Chemistry	Apponaug, R. I.
WALTER, EUGENE VICTOR B.A., University of Miami	Political Science	Miami Beach, Fla.
WEINGARTNER, RUSSELL CLARENCE B.A., University of Cincinnati	Romance Languages	Newport, Ky.
WEST, DORIS EILENE A.B., Earlham College; A.M., Ohio State University	Sociology	Portsmouth, Ohio
*WILLIS, HULON SIMS A.B., Piedmont College; A.B., M.A., University of California	English	Norman Park, Ga.
WOODRESS, JAMES LESLIE, JR. A.B., Amherst College; A.M., New York University	English	Durham, N. C.
ZITNER, SHELDON PAUL B.A., Brooklyn College; M.A., New York University	English	Brooklyn, N. Y.

## GRADUATE SCHOLARS

ABBOT, WILLIAM WRIGHT, III A.B., University of Georgia	History	Louisville, Ga.
BELLAMY, VIRGINIA NELLE B.S., East Tennessee State College	Religion	LaFollette, Tenn.
BENEDICT, MARGARET ANN B.A., Vassar College	Political Science	Chevy Chase, Md.
DAIL, BERNARD EUGENE A.B., Duke University	Economics	Kinston, N. C.
GEORGIADIS, RUTH SAUER A.B., Barnard College of Columbia University	Physiology	Durham, N. C.
GITLIN, EMMANUEL M. B.A., Texas Christian University; B.D., Duke University	Religion	Durham, N. C.
GOUGH, CAROLYNE FRANCES B.A., Marshall College	Political Science	Beechhurst, L. I., N. Y.
HAMRICK, EMMETT A.B., University of North Carolina	Religion	Shelby, N. C.
HOBBS, GRIMSLEY TAYLOR A.B., Guilford College	Philosophy	Chapel Hill, N. C.
HOLLYDAY, FREDERIC BLACKMAR M. A.B., Washington and Lee University	History	Michaels, Md.
KING, DORIS ELIZABETH A.B., Georgia State Woman's College at Valdosta; A.M., Duke University	History	Cairo, Ga.
MACKEY, LOUIS HENRY, JR. A.B., Capital University	Philosophy	Sidney, Ohio

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<i>Name</i>	<i>Department</i>	<i>Home Address</i>
MEEK, RAY BURNS B.A., Marshall College	Philosophy	Catlettsburg, Ky.
*POLAYES, IRVING MARTIN A.B., Duke University	Biochemistry	New Haven, Conn.
PUGH, OLIN SHARPE B.S., University of South Carolina	Economics	Prosperity, S. C.
RICHTER, MELISSA LEWIS A.B., Sarah Lawrence College	Biochemistry	White Plains, N. Y.
SHIH, CHUNG-WEN B.S., St. John's University, Shanghai, China	English	Shanghai, China
SHUFORD, HAYWOOD RHYNE, JR. B.A., Wake Forest College	Philosophy	Dallas, N. C.
SMART, HUGH ROBERT GEORGE A.B., McGill University	Philosophy	Quebec, Canada
TERRELL, KATHERINE A.B., Duke University	History	Jacksonville, Fla.
THOMAS, MARY OLIVE B.A., Agnes Scott College; A.M., University of North Carolina	English	Auburn, Ala.
WAGNER, FRED REESE A.B., Duke University	English	Haddonfield, N. J.
WHITEHEAD, MARY ELIZABETH A.B., Birmingham-Southern College	Romance Languages	Birmingham, Ala.
WINER, RUTH CECILE A.B., Queens College	Economics	Flushing, N. Y.

### FELLOWS AND GRADUATE STUDENTS—SCHOOL OF MEDICINE

ABERNATHY, PAUL MCBEE M.D., Bowman Gray, 1943. <i>Assistant Resident in Ophthalmology and Otolaryngology</i>	Forest City, N. C.
ADAMS, JOHN PLETCH B.S., Univ. of Missouri, 1943; M.D., Washington Univ., 1945. <i>Assistant Resident in Orthopaedics</i>	Callao, Mo.
ALLEN, ALBERT LANHAM A.B., Wofford Coll., 1929; M.D., Medical Coll. of State of South Carolina, 1933. <i>Assistant Resident in Radiology</i>	McColl, S. C.
AMBROSE, SAMUEL SHERIDAN, JR. A.B., Duke, 1943; M.D., Duke, 1947. <i>Intern in Urology</i>	Jacksonville, N. C.
ANLYAN, WILLIAM GEORGE B.S., Yale, 1945; M.D., Yale, 1949. <i>Intern in Surgery</i>	Durham, N. C.
AREY, JOHN VINCENT A.B., Univ. of North Carolina, 1942; M.D., Harvard, 1946. <i>Assistant Resident in Obstetrics and Gynecology</i>	Gold Hill, N. C.

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A.B., Johns Hopkins, 1942; M.D., Univ. of Maryland, 1945.  
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B.S., Davidson, 1944; M.D., Duke, 1947.  
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*Assistant Resident in Surgery* Lumberton, N. C.
- BALCANOFF, EUGENE J.  
A.B., Clark Univ., 1940; M.D., Tufts, 1944.  
*Resident in Psychiatry* Worcester, Mass.
- BALUSS, JOHN W., JR.  
M.D., Univ. of Michigan, 1940.  
*Assistant Resident in Orthopaedics* Ann Arbor, Mich.
- BARDEN, GRAHAM ARTHUR, JR.  
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*Intern in Obstetrics and Pediatrics* New Bern, N. C.
- BARRY, CAREY NEILSON  
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*Intern in Surgery* Clearwater, Fla.
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- BETTS, WILMER CONRAD  
B.S., M.D., Duke, 1948.  
*Assistant Resident in Psychiatry* Raleigh, N. C.
- BLECK, EUGENE E.  
M.D., Marquette Univ., 1947.  
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- BLOOR, BYRON MICHAEL  
B.S., Univ. of Idaho, 1943; M.D., Duke, 1945.  
*Assistant Resident in Neurosurgery* Moscow, Idaho
- BONE, FRANK CUTCHIN  
A.B., Duke, 1940; M.D., Duke, 1943.  
*Assistant Resident in Medicine* Rocky Mount, N. C.
- BOONE, ALEXANDER WHITE, JR.  
B.S., Duke, 1946; M.D., Duke, 1946.  
*Assistant Resident in Urology* Pennsgrove, N. J.
- BOST, ROGER BROWNING  
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*Assistant Resident in Pediatrics* Clarksville, Ark.
- BOTWIN, ARNOLD ELLIS  
B.S., Univ. of Missouri, 1946; M.D., Harvard, 1948.  
*Intern in Surgery* Kansas City, Mo.

- BOVILL, JOHN CHESLEY Dearborn, Mich.  
B.S., Michigan State, 1939; M.D., Wayne Univ., 1943.  
*Assistant Resident in Surgery*
- BROADBENT, THOMAS RAY Heber, Utah  
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*Assistant Resident in Surgery*
- BROOME, ROBERT A., JR. Rocky Mount, N. C.  
M.D., Duke, 1944.  
*Fellow in Medicine*
- CAMPBELL, FRANK HIGHSMITH Durham, N. C.  
M.D., Duke, 1946.  
*Assistant Resident in Surgery*
- CAMPBELL, JOHN SINCLAIR Mainestee, Mich.  
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*Fellow in Orthopaedics*
- CARTER, DONALD DEAN Erwin, Tenn.  
M.D., Duke, 1947.  
*Intern in Psychiatry*
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B.S., Univ. of Florida, 1939; M.D., Columbia, 1943.  
*Fellow in Medicine*
- CECIL, ARTHUR B., JR. Easton, Md.  
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*Resident in Surgery*
- COLLINS, JOHN POPE Blackfoot, Idaho  
A.B., Duke, 1941; M.D., Duke, 1944.  
*Assistant Resident in Surgery*
- CONNAR, RICHARD GRIGSBY Rutherford, N. J.  
A.B., Duke, 1941; M.D., Duke, 1944.  
*Intern in Surgery*
- COONRADT, RAPHEL WOODWARD New York, N. Y.  
M.D., Duke, 1947.  
*Intern in Orthopaedics*
- CORALES, RICHARD HENRY, JR. New Orleans, La.  
B.S., Tulane, 1938; M.D., Tulane, 1942.  
*Assistant Resident in Neurosurgery*
- COSTNER, ALFRED NIXON Lincolnton, N. C.  
B.S., Univ. of North Carolina, 1940; M.D., Washington Univ., 1943.  
*Resident in Ophthalmology and Otolaryngology*
- COVINGTON, ALPHEUS M. Rockingham, N. C.  
B.S., Wofford College, 1940.  
*Student Intern in Surgery*
- DANDY, WALTER EDWARD, JR. Baltimore, Md.  
M.D., Johns Hopkins, 1948.  
*Assistant Resident in Surgery*
- DAVIS, COURTLAND HARWELL, JR. Alexandria, Va.  
A.B., George Washington Univ., 1941; M.D., Univ. of Virginia, 1944.  
*Resident in Neurology*
- DAVIS, DANIEL WILLIAM, JR. Columbia, S. C.  
B.S., The Citadel, 1949; M.D., Duke, 1949.  
*Intern in Surgery*



- DAVIS, WALTER LINCOLN  
M.D., Columbia, 1947.  
*Intern in Obstetrics and Pediatrics* Philadelphia, Pa.
- DAVISON, WILLIAM T.  
B.S., Yale, 1942; M.D., Duke, 1944.  
*Assistant Resident in Orthopaedics* Durham, N. C.
- DEMARIA, WILLIAM JOHN A.  
B.S., Duke, 1944; M.D., Duke, 1947.  
*Intern in Pediatrics* Westport, Conn.
- DILLON, MARCUS LUNSFORD, JR.  
M.D., Duke, 1947.  
*Assistant Resident in Surgery* Lewisburg, W. Va.
- DORTCH, HUGH, JR.  
B.S., Univ. of North Carolina, 1943; M.D., Duke, 1945.  
*Fellow in Pathology* Goldsboro, N. C.
- DRATZ, HENRY MARTIN  
M.D., Duke, 1944.  
*Resident in Neurosurgery* Lynbrook, N. Y.
- DUCKER, STUART REILY  
B.S., Yale, 1942; M.D., Duke, 1944.  
*Resident in Psychiatry* Lakeland, Fla.
- DUCKETT, HOWARD CASEY, JR.  
A.B., Duke, 1941; M.D., Duke, 1944.  
*Assistant Resident in Obstetrics and Gynecology* Durham, N. C.
- EASTERLING, WALTER SIDNEY  
B.S., Univ. of Arkansas, 1946; M.D., Univ. of Arkansas, 1947.  
*Assistant Resident in Endocrinology* Chicot, Ark.
- EASTWOOD, FREDERICK THOMAS  
A.B., Duke, 1941; M.D., Temple, 1944.  
*Assistant Resident in Pediatrics* Burlington, N. J.
- EMLET, JOHN RICHARD  
M.D., Duke, 1945.  
*Assistant Resident in Surgery* Hanover, Pa.
- EYLER, DON LEROY  
B.S., Ohio State, 1940; M.D., Ohio State, 1943.  
*Fellow in Orthopaedics* Lima, Ohio
- FARLEY, WILLIAM WINFREE  
B.A., Univ. of Richmond, 1940; M.D., Medical Coll. of Virginia, 1943.  
*Assistant Resident in Pediatrics* Durham, N. C.
- FAWCETT, BLAKE  
A.B., Duke, 1943; M.D., Duke, 1947.  
*Assistant Resident in Surgery* Baltimore, Md.
- FERGUSON, THOMAS BRUCE  
B.S., M.D., Duke, 1947.  
*Assistant Resident in Surgery* Tulsa, Okla.
- FITZPATRICK, WILLIAM NORWOOD  
B.S., Mercer Univ., 1941; M.D., Emory, 1944.  
*Assistant Resident in Medicine* Vienna, Ga.
- FLEMING, WILLIAM JOHNSON  
A.B., Stanford, 1940; M.D., Stanford, 1945.  
*Fellow in Medicine* San Francisco, Calif.

- FLINCHUM, DARIUS Willis, Va.  
A.S., Presbyterian Jr. Coll., 1939; A.B., Hampden-Sydney, 1941; M.D.,  
Univ. of Virginia, 1944.  
*Fellow in Orthopaedics*
- FLOWE, BENJAMIN HUGH Concord, N. C.  
M.D., Duke, 1949.  
*Intern in Surgery*
- FLOWER, ARTHUR HOWARD, JR. Durham, N. C.  
A.B., Heidelberg College, 1938; M.D., Duke, 1942.  
*Fellow in Dermatology*
- FORD, ZENAS WALDO, JR. Fayetteville, Ark.  
B.S., Univ. of Arkansas, 1940; M.D., Duke, 1946.  
*Assistant Resident in Anesthesiology*
- FURST, WILLIAM R. D. Baltimore, Md.  
M.D., Duke, 1949.  
*Intern in Pediatrics*
- GOLDNER, JOSEPH LEONARD Omaha, Neb.  
B.S., Univ. of Nebraska, 1941; M.D., Univ. of Nebraska, 1943.  
*Assistant Resident in Orthopaedics*
- GOLDSMITH, JEWETT Baltimore, Md.  
A.B., Johns Hopkins, 1938; M.D., Univ. of Maryland, 1942.  
*Assistant Resident in Psychiatry*
- GOWDY, ROBERT AVERILL Los Angeles, Calif.  
B.S., Davidson, 1943; M.D., Duke, 1948.  
*Assistant Resident in Surgery*
- HAGERTY, ROBERT FLEMING Cohasset, Mass.  
A.B., Harvard, 1939; M.D., Johns Hopkins, 1943.  
*Assistant Resident in Surgery*
- HAGGERTY, WILLIAM CLIFFORD Lakewood, Ohio  
M.D., Duke, 1948.  
*Intern in Surgery*
- HALLET, ROBERT LAWRENCE Springfield, Mass.  
M.D., Duke, 1949.  
*Intern in Medicine*
- HARRIS, JAMES ALLEN Cincinnati, Ohio  
*Student Intern in Surgery*
- HAUGEN, ROGER KENT Sioux Falls, S. D.  
A.B., Augustana College, 1945; B.S., Univ. of South Dakota, 1946; M.D.,  
Washington Univ., 1948.  
*Intern in Pathology*
- HIRSCH, JULES Bradley Beach, N. J.  
M.D., Southwestern, 1948.  
*Intern in Medicine*
- HODGES, EMORY FALCON, JR. Petersburg, Va.  
M.D., Univ. of Virginia, 1947.  
*Assistant Resident in Psychiatry*
- HOLLINGSWORTH, JAMES WILLIAM Mount Airy, N. C.  
M.D., Duke, 1948.  
*Assistant Resident in Medicine*
- HAYES, GEORGE JOSEPH Washington, D. C.  
B.S., Catholic Univ., 1940; M.D., Johns Hopkins, 1943.  
*Assistant Resident in Neurosurgery*

- HOLLOWELL, VICTOR BOYCE Elizabeth City, N. C.  
A.B., Univ. of North Carolina, 1942; M.D., Harvard, 1946.  
*Assistant Resident in Pediatrics*
- HOPKINS, GEORGE C. St. Augustine, Fla.  
M.D., Temple, 1946.  
*Assistant Resident in Pediatrics*
- HUNTLEY, BENJAMIN FRANKLIN, III Winston-Salem, N. C.  
M.D., Harvard, 1948.  
*Assistant Resident in Medicine*
- INGRAM, JAMES MAYHEW, JR. Tampa, Fla.  
M.D., Duke, 1943.  
*Assistant Resident in Obstetrics and Gynecology.*
- JAVIER, JEROME M. Long Island, N. Y.  
M.D., Duke, 1947.  
*Intern in Surgery*
- KAPLAN, SEYMOUR R. Miami Beach, Fla.  
M.D., Duke, 1945.  
*Assistant Resident in Pediatrics*
- KEELEY, ROBERT LOUIS ANTHONY Roanoke, Va.  
M.D., Univ. of Virginia, 1944.  
*Intern in Surgery*
- KENDRICK, RICHARD EDWARD Los Angeles, Calif.  
A.B., Stanford, 1942; M.D., Stanford, 1945.  
*Assistant Resident in Orthopaedics*
- KERBY, GRACE Atlanta, Ga.  
B.S., Florida State, 1933; M.D., Duke, 1946.  
*Resident in Dermatology*
- KERNODLE, CHARLES EDWARD, JR. Elon College, N. C.  
A.B., Elon College, 1938; M.D., Elon College, 1942.  
*Resident in Surgery*
- KERR, WILLIAM RUPERT Houston, Tex.  
M.D., Tulane, 1947.  
*Intern in Obstetrics and Gynecology*
- KIBLER, ROBERT FRANKLIN Durham, N. C.  
B.S., Duke, 1945; M.D., Duke, 1948.  
*Intern in Medicine*
- KILGORE, SAMUEL REA Woodruff, S. C.  
B.S., The Citadel, 1938; M.D., Duke, 1943.  
*Fellow in Psychiatry*
- KING, JOHN DEWITT St. Louis, Mo.  
B.S., Univ. of Missouri, 1943; M.D., Washington Univ., 1945.  
*Intern in Pathology*
- KIPKIE, GEORGE F. Reinga, Sask., Can.  
M.D., C.M., Queens Univ., 1939; M.Sc., McGill Univ., 1948.  
*Resident in Pathology*
- KRATZ, RICHARD P. Los Angeles, Calif.  
A.B., Occidental College, 1942; M.D., Univ. of Southern California, 1946.  
*Intern, Ophthalmology and Otolaryngology*
- LANGE, RAMON LINUS Superior, Wis.  
M.D., Duke, 1949.  
*Intern in Medicine*

- LEE, FERDINAND WAYNE Morgantown, W. Va.  
B.S., West Virginia Univ., 1941; M.D., Univ. of Maryland, 1943.  
*Assistant Resident in Orthopaedics*
- LIES, WILLIAM, III Freeport, N. Y.  
M.D., Duke, 1947.  
*Intern in Pediatrics*
- LINBERG, EUGENE JOSEPH Carney's Point, N. J.  
A.B., Duke, 1944; M.D., Duke, 1947.  
*Assistant Resident in Surgery*
- LORENZEN, ROBERT FREDERICK Toledo, Ohio  
B.S., Duke, 1948; M.D., Duke, 1948.  
*Intern in Ophthalmology and Otolaryngology*
- LYNN, WILLIAM SANFORD, JR. Montgomery, Fla.  
B.S., Alabama Polytechnic Institute, 1943; M.D., Columbia, 1946.  
*Assistant Resident in Medicine*
- MCDONALD, RICHARD HOBERT Lynbrook, N. Y.  
M.D., Johns Hopkins, 1946.  
*Intern in Pathology*
- McMAINS, FRANCIS CHARLES Greenville, S. C.  
B.S., Univ. of New Mexico; M.D., Tulane University, 1946.  
*Fellow in Orthopaedics*
- McPHERSON, HARRY THURMAN Walnut Cove, N. C.  
B.S., Duke, 1948; M.D., Duke, 1948.  
*Intern in Medicine*
- McSWAIN, GEORGE HOWARD Paris, Tenn.  
A.B., Vanderbilt, 1938; M.D., Vanderbilt, 1941.  
*Assistant Resident in Surgery*
- MANHOFF, LOUIS J., JR. San Antonio, Texas  
M.D., Univ. of Texas, 1941.  
*Assistant Resident in Pathology*
- MARTIN, THOMAS L. Greenville, S. C.  
A.B., Washington and Lee Univ., 1941; M.D., Duke, 1944.  
*Assistant Resident in Radiology*
- MATHISEN, GLENN ESTES Norfolk, Va.  
A.B., Duke, 1946.  
*Student Intern in Surgery*
- MAYER, LESLIE C. Sioux Falls, S. D.  
A.B., Univ. of Nebraska, 1941; B.Sc., Univ. of Nebraska, 1942; M.D., Univ. of Nebraska, 1943.  
*Fellow in Orthopaedics*
- MILLER, GEORGE R. Albion, N. Y.  
A.B., Univ. of Rochester, 1941; M.D., Univ. of Rochester, 1943.  
*Intern in Orthopaedics*
- MITTELMAN, JAY ARNOLD West Hartford, Conn.  
M.D., Univ. of Pennsylvania, 1948.  
*Intern in Pathology*
- MOODY, JAMES DONALDSON East Brady, Pa.  
A.B., Duke, 1942; M.D., Duke, 1944.  
*Assistant Resident in Surgery*
- MORGAN, JAMES LEROY Norfolk, Va.  
M.D., Duke, 1949.  
*Intern in Pediatrics*



- MULLER, JOHN CRAWFORD  
B.S., The Citadel, 1948; M.D., Duke, 1948.  
*Assistant Resident in Medicine* Dillon, S. C.
- MURPHY, RICHARD J. F.  
B.Sc., Dalhousie, 1939; M.C., Dalhousie, 1943; C.M., Dalhousie, 1943.  
*Fellow in Medicine* Halifax, N. S., Can.
- NEWBORG, BARBARA  
A.B., Swarthmore, 1941; M.D., Johns Hopkins, 1949.  
*Intern in Medicine* Durham, N. C.
- NICKEL, JAMES FRANCIS  
A.B., Univ. of Oklahoma, 1946; M.D., Washington Univ., 1948.  
*Assistant Resident in Medicine* Clinton, Okla.
- NICOLAY, KENNETH S.  
A.B., Univ. of Kansas, 1943; M.D., Univ. of Kansas, 1945.  
*Assistant Resident in Endocrinology* Abilene, Kan.
- O'CONNELL, WILLIAM FREDERICK  
A.B., Brown, 1944; M.D., Yale, 1945.  
*Assistant Resident in Pediatrics* Cranston, R. I.
- ORY, ALAN AUGUSTUS  
A.B., Univ. of Alabama, 1943; M.D., Vanderbilt, 1947.  
*Assistant Resident in Medicine* Ft. Payne, Ala.
- PACE, KARL BUSBEE, JR.  
M.D., Jefferson, 1947.  
*Assistant Resident in Dermatology* Greenville, N. C.
- PALUMBO, LEONARD  
M.D., Duke, 1944.  
*Resident in Obstetrics and Gynecology* Orange, N. J.
- PARKER, JOSEPH GARISON  
B.S., Harvard, 1943; M.D., Columbia, 1948.  
*Intern in Medicine* New York, N. Y.
- PARKER, ROY TURNAGE  
A.B., Univ. of North Carolina, 1941; M.D., Med. College of Virginia, 1944.  
*Assistant Resident in Obstetrics and Gynecology* Pinetops, N. C.
- PEETE, CHARLES HENRY, JR.  
M.D., Harvard, 1947.  
*Intern in Obstetrics and Gynecology* Warrenton, N. C.
- PENNINGER, WILLIAM  
M.D., Univ. of Missouri, 1945.  
*Fellow in Orthopaedics* Mountainview, Mo.
- PETERS, WILLIAM A., JR.  
A.B., Duke, 1939; M.D., Duke, 1943.  
*Resident in Obstetrics and Gynecology* Elizabeth City, N. C.
- PETERSEN, ROBERT LUNDBERG  
B.S., Univ. of Minnesota, 1944; M.D., Univ. of Minnesota, 1946.  
*Assistant Resident in Radiology* Minneapolis, Minn.
- PHILLIPS, BENJAMIN JACKSON  
B.S., Davidson, 1942; M.D., Duke, 1945.  
*Assistant Resident in Obstetrics* Jacksonville, Fla.
- PHILLIPS, RICHARD HART  
B.S., Univ. of North Carolina, 1944; M.D., New York Univ., 1945.  
*Assistant Resident in Psychiatry* Mt. Ranier, Md.

- PHILLIPS, SAM HOUSTON, JR. Dallas, Tex.  
M.D., Southwestern, 1949.  
*Intern in Medicine*
- PINE, IRVING Durham, N. C.  
M.D., New York Med. Coll., 1932.  
*Resident in Psychiatry*
- PRYOR, WILLIAM WATKINS Oxford, N. C.  
M.D., Duke, 1947.  
*Assistant Resident in Medicine*
- RAST, CHARLES LEWIS, JR. Swansea, S. C.  
A.B., Washington and Lee Univ., 1943; M.D., Johns Hopkins, 1947.  
*Assistant Resident in Medicine*
- REILLY, FRANCIS G. Arlington, Va.  
B.A., Dartmouth, 1943; M.D., Yale, 1946.  
*Intern in Surgery*
- RITCHIE, JOHN A. New York, N. Y.  
M.D., Duke, 1943.  
*Assistant Resident in Psychiatry*
- ROBBINS, JACK GUYES Durham, N. C.  
M.D., Duke, 1948.  
*Intern in Medicine*
- RUFFIN, CLARENCE LEE Tarboro, N. C.  
A.B., Univ. of North Carolina, 1942; M.D., Duke, 1945.  
*Assistant Resident in Obstetrics and Gynecology*
- SCHIEVE, JAMES F. Cincinnati, Ohio  
M.D., Univ. of Cincinnati, 1943.  
*Resident in Medicine*
- SCHEINBERG, PERITZ Miami, Fla.  
A.B., Emory, 1941; M.D., Emory, 1944.  
*Fellow in Medicine*
- SCHIPKE, RAYMOND EDGAR Meriden, Conn.  
A.B., Colgate, 1942; M.D., New York Medical College, 1946.  
*Assistant Resident in Pediatrics*
- SCHMIDT, FREDERICK KENNETH Plainfield, N. J.  
M.D., Duke, 1944.  
*Assistant Resident in Urology*
- SCOTT, JAMES LEE, JR. Marietta, Ga.  
M.D., Duke, 1949.  
*Intern in Medicine*
- SEALY, HUGH KEY, JR. Reynolds, Ga.  
M.D., Duke, 1948.  
*Assistant Resident in Medicine*
- SELTSAM, JACK HAROLD Rocky River, Ohio  
B.S., Western Reserve, 1943; D.D.S., Western Reserve, 1944; M.D., Northwestern, 1948.  
*Intern in Surgery*
- SEMED, CHESTER JAMES New York, N. Y.  
A.B., Columbia, 1945; M.D., Columbia, 1948.  
*Intern in Surgery*
- SHINEFIELD, HENRY R. Paterson, N. J.  
A.B., Columbia College, 1944; M.D., Columbia, 1948.  
*Intern in Pediatrics*

- SHINGLETON, WILLIAM WARNER  
A.B., Atlantic Christian College, 1940; M.D., Bowman Gray, 1943.  
*Assistant Resident in Surgery* Wilson, N. C.
- SHIVERS, OLIN GRIGSBY, JR.  
M.D., Cornell, 1948.  
*Assistant Resident in Pediatrics* Chipley, Fla.
- SIEKER, HERBERT OTTO  
M.D., Washington, 1948.  
*Assistant Resident in Medicine* Maplewood, Mo.
- SILVERMAN, SEYMOUR BERTRAM  
B.S., Magill, 1944; M.D., Magill, 1944.  
*Assistant Resident in Pathology* Montreal, Can.
- SINDEN, RICHARD HOPKINS  
M.D., Duke, 1942.  
*Assistant Resident in Medicine* Dunedin, Fla.
- SINSKEY, ROBERT MARSHALL  
B.A., Washington and Lee, 1945; M.D., Duke, 1947.  
*Intern in Ophthalmology and Otolaryngology* Baltimore, Md.
- STANDS, BENJAMIN O.  
B.S., Indiana Univ., 1945; M.D., Indiana Univ., 1945.  
*Assistant Resident in Pediatrics* La Fontaine, Ind.
- STAUFFER, CLARENCE CHARLES  
A.B., Duke, 1937; M.D., Duke, 1941.  
*Resident in Urology* Miami Beach, Fla.
- ST. JOHN, HAROLD  
B.S., Duke, 1945; M.D., Duke, 1945.  
*Fellow in Medicine* Washington, D. C.
- STODDARD, LELAND DOUGLAS  
A.B., DePauw Univ., 1940; M.D., Johns Hopkins, 1943.  
*Resident in Pathology* Mt. Carmel, Ill.
- SULLIVAN, ROBERT DONALD  
M.D., Syracuse Univ., 1948.  
*Intern in Pathology* Long Island City, N. Y.
- TAYLOR, WILLIAM JAPE  
B.S., Yale, 1945; M.D., Harvard, 1947.  
*Assistant Resident in Medicine* McMinnville, Tenn.
- THOMPSON, PAUL CLAYTON  
A.B., Duke, 1942; M.D., Duke, 1945.  
*Assistant Resident in Orthopaedics* Reidsville, N. C.
- THORNE, SILAS OWENS, JR.  
B.S., Duke, 1947; M.D., Duke, 1947.  
*Intern in Ophthalmology and Otolaryngology* Charlotte, N. C.
- TOWBIN, EUGENE J.  
A.B., New York Univ., 1941; M.S., Univ. of Colorado, 1942; M.D., Univ. of Rochester, 1949; Ph.D., Univ. of Rochester, 1949.  
*Intern in Medicine* New York, N. Y.
- TOWNSEND, BERTRAM F.  
A.B., Duke, 1941; M.D., Duke, 1944.  
*Assistant Resident in Anesthesiology* Nutley, N. J.
- VAN ARSDALL, CHARLES ALEXANDER  
A.B., Univ. of Louisville, 1946; M.D., Johns Hopkins, 1949.  
*Intern in Medicine* Harrisburg, Ky.

- VOYLES, CARL MARVIN, JR. Williamsburg, Va.  
B.S., William and Mary, 1943; M.D., Duke, 1945.  
*Assistant Resident in Medicine*
- WATKINS, WILLIAM THURMAN, JR. Newport News, Va.  
M.D., Duke, 1945.  
*Assistant Resident in Dermatology*
- WEAR, JOHN EDMUND Haleyville, Ala.  
A.B., Univ. of Alabama, 1942; B.M., Northwestern, 1945; M.D., Northwestern, 1946.  
*Assistant Resident in Radiology*
- WEBSTER, FREDERICK SHANNON Lincoln, Neb.  
A.B., Univ. of Nebraska, 1938; M.D., Univ. of Chicago, 1942.  
*Assistant Resident in Orthopaedics*
- WIDMARK, WALTER LEROY Verone, N. J.  
A.B., Duke, 1938; M.D., Duke, 1941.  
*Assistant Resident in Obstetrics and Gynecology*
- WILDE, NORBERT JOHN Belleville, Ind.  
B.S., Univ. of Illinois, 1939; D.D.S., Univ. of Illinois, 1940; M.D., Univ. of Illinois, 1943.  
*Resident in Surgery*
- WILLETT, ROBERT W. New York, N. Y.  
M.D., Duke, 1948; B.S., Duke, 1948.  
*Assistant Resident in Medicine*
- WILLIAMS, HUGH CARLEDGE Louisville, Ky.  
M.D., Univ. of Pennsylvania, 1949.  
*Intern in Surgery*
- WILSON, LESTER ARNOLD, JR. Charleston, S. C.  
B.S., William and Mary, 1938; M.D. Med. College of South Carolina, 1942.  
*Assistant Resident in Obstetrics and Gynecology*
- WITHERS, W. BARRON Charlotte, N. C.  
M.D., Duke, 1945.  
*Fellow in Orthopaedics*
- WORTHAM, JAMES TOLLIVER Little Rock, Ark.  
A.A., State A. and M. College, 1943; B.S., Univ. of Arkansas, 1945; M.D., Univ. of Arkansas, 1947.  
*Intern in Endocrinology*
- WULFMAN, ROBERT CLIFFORD Huntington, W. Va.  
M.D., Duke, 1945.  
*Resident in Anesthesiology*
- ZARZECKI, CASIMER A. Grand Rapids, Mich.  
A.B., Univ. of Michigan, 1941; M.D., Univ. of Michigan, 1944.  
*Assistant Resident in Orthopaedics*
- ZIRKLE, GEORGE ANDREW, JR. Grand Rapids, Mich.  
A.B., Univ. of Michigan, 1941; M.D., Univ. of Michigan, 1944.  
*Assistant Resident in Pediatrics*
- ZIRKLE, GEORGE ANDREW, JR. Roanoke, Va.  
B.S., Virginia Polytechnic Institute, 1942; M.D., Medical College of Virginia, 1945.  
*Assistant Resident in Pediatrics*
- YOUNG, CABELL, JR. Charlotte, N. C.  
B.S., Duke, 1939; M.D., Duke, 1943.  
*Fellow in Orthopaedics*
- YOUNG, WILLIAM GLEN, JR. Washington, D. C.  
M.D., Duke, 1948.  
*Fellow in Surgery*



# UNDERGRADUATE COLLEGES

Trinity College

The Woman's College

The College of Engineering

1948-1949

ANNOUNCEMENTS FOR 1949-1950

## **THE COLLEGES**

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### **GENERAL STATEMENT**

Duke University offers in Trinity College, the Woman's College, and the College of Engineering four academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, Bachelor of Science in Nursing Education, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering.

### **TRINITY COLLEGE**

Trinity College is the undergraduate college of arts and sciences for the men of Duke University and is situated on the West Campus as are the College of Engineering, the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the Divinity School.

### **THE WOMAN'S COLLEGE**

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

### **THE COLLEGE OF ENGINEERING**

Duke University, through the College of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering, with an aeronautics option for mechanical engineers.

### **THE LIBRARIES**

The University Libraries contained 927,701 volumes and more than a million manuscripts at the end of the school year 1947-48. Many additional hundreds of rare books, periodicals and newspapers are available in the 2,500 reels of microfilm which the Library possesses. Seventy foreign and domestic newspapers and about 3,600 periodicals are received currently.

The General Library, in which about 600,000 volumes are shelved, is centrally located on the West Campus. The Undergraduate Reading Room on the first floor contains a selected collection of 3,000 books for general reading, together with an equal number of supplementary volumes reserved for undergraduate courses. One of the features of this unit of the Library is an attractively furnished room opening off the Undergraduate Reading Room, with a selection of current books of general interest on open shelves. The main reference room of the Library, containing 5,000 volumes of important reference works of a general character, is on the second floor. Nearby is the Loan Desk, where books may be borrowed from the stacks; and the Union card catalog, a record of all the books in the University Libraries. In the same general area is the

Documents Room, which houses the official publications of the federal and state government. These areas are open to all students.

The General Library building has been doubled in size by the completion of an addition which was begun in 1947. This new area contains stacks, special reading rooms, offices for staff and faculty, and reading and storage facilities for rare books and manuscripts. The entire area for book storage, rare books and manuscripts is air-conditioned. Seniors, honor students, and others undertaking special studies may be admitted to the stacks of the General Library.

The Chemistry library of 12,733 volumes, the Physics-Mathematics library of 12,076 volumes, the Biology-Forestry library of 38,194 volumes, are housed for the convenience of the faculty and students in the buildings of these departments. The libraries of the schools of Divinity (43,986), Law (87,093), and Medicine (46,516), and the College of Engineering (11,357) likewise are shelved in the buildings of these special schools. Undergraduate students may, if occasion demands, have access to material in any of the libraries.

The Woman's College Library contains 75,986 volumes, chiefly the books most constantly needed in the undergraduate work of women students. An attractive feature of the library is the Booklovers' Room, where on open shelves students may find interesting books in various fields. In honor of Mr. James A. Thomas, the Thomas Memorial Room was opened in December, 1942, affording a quiet, attractive place for study or reading. The decorations and furnishings in the room were provided by Chinese and American friends of Mr. Thomas.

#### **THE NAVAL RESERVE OFFICERS TRAINING CORPS**

The postwar NROTC was established by Public Law 729, signed by the President on August 13, 1946. This law, commonly known as the Holloway Plan, instituted the selection and training of officer candidates for the Navy and Marine Corps by means of Naval Scholarships in colleges and universities throughout the country. An NROTC unit, under the command of the Professor of Naval Science, a Captain in the Regular Navy, is located in Duke University and fifty-one other universities and colleges.

The purpose of the new NROTC is to provide a steady supply of well-educated junior officers for the line and staff corps of the regular Navy and to build up a reserve of trained officers who will be ready to serve their country at a moment's notice in a national emergency. NROTC graduates will be given equal rank, equal treatment, and equal opportunities with the graduates of the United States Naval Academy.

Officer candidates under Public Law 729 are designated as regular NROTC students and appointed Midshipmen, U.S.N.R. A total enrollment in the NROTC college units of 14,000 regular students is authorized. These students are selected as a result of an annual nation-wide test and selection procedure prescribed by the Bureau of Naval Personnel.

Regular NROTC students will be granted the following compensation and benefits:

The cost of tuition, fees, and textbooks will be paid by the government. Necessary uniforms will be provided by the government, and students will receive retainer pay for other expenses during college at the rate of \$600 per year. Normally students will attend college for four years. While in college they may take any course leading to a baccalaureate or higher degree, but must include therein 24 semester hours or equivalent quarter hours of Naval Science, plus certain minimum requirements in mathematics, physics, and English. They will wear the uniform only when engaged in drills or other Naval activities prescribed by the Professor of Naval Science, and, except for the ordinary requirements of gentlemanly conduct, will be subject to naval discipline only at those times. They will be required to make two summer cruises and take one summer period of aviation indoctrination, lasting from six to eight weeks each, and, upon graduation, must accept a commission as Ensign, U.S.N., or Second Lieutenant, U.S.M.C., if offered. After from fifteen months to two years of active duty they will be given the chance to serve an additional year and to apply for a permanent commission in the regular Navy or Marine Corps. If they do not choose a career in the regular Navy or Marine Corps, they will be required to accept a commission in the Naval Reserve or Marine Corps Reserve, such commission not to be resigned prior to the sixth anniversary of receiving their first commissions as Ensigns. Save at their own request reserve officers are not called to active duty except during war or a national emergency.

There are two other types of officer candidates:

(a) Contract NROTC Students have the status of civilians who have entered into a mutual contract with the Navy. They will be selected from qualified students regularly enrolled in Duke University. They are not entitled to the compensation or benefits paid Regular NROTC Students. Complete uniforms, all books and equipment that the student needs in the Naval Science course are lent to him without cost.

Contract students are paid an allowance for subsistence (currently \$1.05 per day), during their final two years of NROTC Training. In addition students are allowed the Navy Seventh Grade pay while on the practice cruise. Contract students agree to accept a commission in the Naval Reserve or the Marine Corps Reserve but may, if they so desire and if their services are required, be commissioned as Ensigns, U.S.N., or Second Lieutenants, U.S.M.C., and serve for two years on active duty. They may then apply, if they so desire, for retention in the service. Contract NROTC Students are required to make one summer practice cruise.

(b) Naval Science Students. (1) With the approval of the academic authorities, students who are ineligible for enrollment in the NROTC solely because they are in excess of the allowed quota of the unit, may be permitted to pursue Naval Science courses for college credits. They are not eligible to make NROTC practice cruises nor to be paid any compensation or benefits.

(2) Naval Science Students may become eligible for enrollment in



the NROTC as candidates for commissions provided they comply in every respect with the requirements for original enrollment, when vacancies occur in the Unit quota.

Under the provisions of the Selective Service Act of 1948 Regular NROTC Students, who must serve a period of active duty as an integral part of their training under Public Law 729, are deferred from Selective Service. Contract NROTC Students are required upon enrollment to execute an agreement to accept a commission upon graduation, if offered, and to serve on active duty for a period of two years, if required. By virtue of this agreement, they are deferred from Selective Service. All NROTC students are considered on *inactive* duty in the Naval Reserve while in college, and such service may *not* be counted for exemption or deferment under the Selective Service Act, should a student be separated from the program for any reason.

## ADMISSION TO TRINITY COLLEGE AND THE WOMAN'S COLLEGE

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Applicants may qualify for admission to Trinity College or the Woman's College as members of the Freshman Class or as students with advanced standing. Since the enrollment in the two colleges is limited, the Committee on Admissions will select the students who, in its opinion, are best qualified to benefit from the educational advantages which the colleges offer.

### APPLICATION FOR ADMISSION

Application for admission to Trinity College should be made to the Secretary of Duke University, Duke Station, Durham, North Carolina, for transmittal to the Council on Admissions. Application for admission to the Woman's College should be made to the Committee on Admissions, College Station, Durham, North Carolina. Forms of application will be sent on request.

### GENERAL REQUIREMENTS

Admission to Trinity College and to the Woman's College is dependent upon the ability, attainments, and character of the applicant. Each applicant must see that the Committee on Admissions receives a complete record of his work in secondary school or college, the required medical certificate, and satisfactory evidence of his good character and ability.

### SPECIFIC REQUIREMENTS

An applicant for admission to the Freshman Class must present at least fifteen acceptable units of secondary school credit. A unit of credit is allowed for a course of study pursued throughout an academic year in an accredited secondary school, if five recitations per week have been held and the prescribed amount of work has been completed satisfactorily.

- Twelve units must be in English, foreign language, history and social studies, mathematics, and natural science; and must include:
  - English—3 units.
  - Algebra—1 unit.
  - Plane geometry—1 unit.
- The three additional units may be in the subjects listed above or from those in the following table. The units indicate the maximum amount of credit acceptable in each subject:

SUBJECT	UNITS	SUBJECT	UNITS
Agriculture .....	2	Mechanical Drawing .....	2
Art .....	1	Music .....	1
Commercial Subjects .....	3	Physical Geography .....	1
Household Economics .....	2	Woodworking, Machine Work ....	2

Other units offered in subjects not included in this list will be considered for acceptance on the basis of full statements transmitted with the applicant's record from the school recommending him.

### **ADMISSION BY CERTIFICATE**

A graduate of an accredited school, who submits fifteen acceptable units of secondary school subjects, is recommended by his principal, and otherwise meets the requirements of the Admissions Committee, may be admitted without examination. The certification and recommendation must be on blanks furnished by the College and signed by the principal of the school in which the applicant completed his course.

### **ADMISSION BY EXAMINATION**

An applicant who presents fifteen acceptable units for admission from a nonaccredited school is required to validate these units by entrance examinations and such other tests as the College may prescribe.

### **ADMISSION WITH ADVANCED STANDING**

A student of good character who has completed satisfactorily at least one full year of college work in an approved college may be admitted with advanced standing. He must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work completed in other institutions, and have honorable dismissal from each institution previously attended. Credit for work completed will be determined in relation to the curriculum of Trinity College or the Woman's College.

A student enrolling for the Bachelor's degree who transfers from a junior college, or from a four-year college not affiliated with the Southern Association or a similar regional association, is under all circumstances required to continue, for at least one semester in Trinity College or in the Woman's College, the foreign language he presents for minimum graduation requirements.

A student who has transferred from a junior college, or from a four-year college not affiliated with the Southern Association or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit. The maximum amount of credit acceptable from a junior college is sixty semester hours.

Transfer credits are tentatively evaluated pending the completion of two semesters' work in residence. To validate provisional credits the student must earn at least an average of "C" in a normal load of work. Transfer grades of "C" or above are rated at one quality point per credit hour when validated.

No credit is given for work completed by correspondence, and not more than six semester hours credit is allowed for extension courses. Any extension work accepted must be specifically approved by the Dean of the College.

### **ADMISSION FOR SPECIAL WORK**

Upon the approval of the Dean, a student of mature age may be admitted for special work in such courses of instruction as he is qualified to take, but not as a candidate for a degree in a regular course unless he meets all requirements for admission.

**READMISSION OF FORMER STUDENTS**

A student, who, following withdrawal from College, desires to return to the College, should apply to the Dean for readmission. If a student has completed during his absence from the College any undergraduate work in another institution of approved standing, he must submit an official transcript of this work, with a statement of honorable dismissal, from that institution.

**PRELIMINARY TESTS AND EXAMINATIONS**

During the orientation period all Freshmen are given placement tests in chemistry, English, mathematics, and the foreign languages they are to continue. On the results of these tests and general ability tests, students are assigned to the proper sections of their respective academic subjects. Physical examinations are also given.



## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

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The requirements for the degree of Bachelor of Arts are based on the principle that the student will derive the maximum benefit from his college work if his program includes a broad distribution of studies among representative fields of culture, concentration within a special field, and some work of his own choice.

For graduation with the degree of Bachelor of Arts, the following course work must be completed in accordance with the Academic Regulations as stated elsewhere in this Bulletin.

<i>Uniform Course Requirements</i>	S.H.
English Composition .....	6
Foreign Language .....	6-18
Natural Science .....	11
Religion .....	6
Social Science and History .....	12
Literature, Music, Art, and Philosophy .....	6
Physical Education .....	4
<i>Major and Related Work</i> .....	42
<i>Electives to make a total of</i> .....	124

These requirements are described in detail below. Descriptions of courses can be found under "Courses of Instruction, Trinity College and the Woman's College."

**English Composition, 6 s.h.**—This requirement is met by the completion of English 1-2. Students who demonstrate proficiency in English usage may be allowed to substitute a course in English literature for English 1.

**Foreign Language, 6 to 18 s.h.**—This requirement is met by the completion of the third college year of a foreign language. The languages which meet this requirement are French, German, Greek, Latin, Spanish. The number of courses required depends on previous training and ability as shown on placement tests. Students presenting for entrance four units of Latin may, however, satisfy the language requirement by the completion of the third college year of Latin or by two years of Greek. In exceptional cases, on the recommendation of the language department concerned and with the approval of the Dean, a student who has completed the second college year of one language may satisfy the requirement by the completion of the first year of another language.

**Natural Science, 11 s.h.**—To satisfy this requirement a student must complete a laboratory course (8 s.h.) in one of the natural sciences (botany, chemistry, geology, physics, zoology), and one course of at least 3 s.h. selected from mathematics (except Mathematics 1), logic and scientific methodology (Philosophy 48, 104, and 242), or from the sciences listed above.

**Religion, 6 s.h.**—To meet this requirement 6 s.h. must be chosen from Religion 1, 2, 51, 52, 101, 103, 114, 181, 182, 183, or Philosophy 99.

**Social Science and History, 12 s.h.**—(a) Students who present for entrance two acceptable units of history can satisfy this requirement by 12 s.h. chosen from History 1-2, or 51-52, Economics 51-52, Education 84, 105, Political

Science 61-62, Psychology 91-92, Sociology 91-92. Six of the 12 s.h. must be taken in economics, history, political science, or sociology. (b) Students who do not present for entrance two acceptable units of history must take History 1-2, or 51-52, and 6 s.h. selected from the other social sciences named in (a).

**Literature, Music, Art, and Philosophy, 6 s.h.**—This requirement can be satisfied by a total of 6 s.h. in courses in English or American literature, foreign literature courses numbered above 100, literature courses in translation, courses in aesthetics, art, music, or Philosophy 91, 93, or 94.

**Physical Education, 4 s.h.**—In Trinity College physical education is required during each of the first two years and is normally completed by the end of the Sophomore year; in the Woman's College it is required during the first three years and is normally completed by the end of the Junior year.

**Major and Related Work, 42 s.h.**—Prior to registration in the spring of his Sophomore year, each student is required to choose his major field and confer with his departmental adviser on the requirements for major and related work.

The major work consists of 18 to 24 s.h. in one department exclusive of courses open primarily to Freshmen.\* The choice of courses must be approved by the major department. The related work must be taken in at least two other departments and is selected subject to the approval of the major department and the Dean; it may not include more than one course of 6 or 8 s.h. open primarily to Freshmen. Courses satisfying the uniform course requirements may also be counted toward the requirements in major and related work. Information on specific departmental requirements for major and related work can be found in the section "Courses of Instruction" (page 95), and several programs of study designed as preparation for professions are given in the next section.

The total amount of work that a student may take in any one department toward the Bachelor of Arts degree is limited to a maximum of 36 s.h. In the Department of Aesthetics, Art, and Music, and the Department of Philosophy, the Department of English, the Department of Economics and Business Administration, and the Department of Romance Languages, a total of 54 s.h. is permitted, provided a total of not more than 36 s.h. is taken in any one division of the department.

**Electives.**—In addition to the uniform courses required and major and related work, other courses must be completed to make a total of at least 124 s.h., including 4 s.h. of physical education.

Students whose courses of study permit may elect a maximum of 18 s.h. in Engineering, Forestry, or Medical Sciences. The courses elected in these subjects must be those approved by the Faculty Council as appropriate for the Bachelor of Arts degree and published in this Bulletin.

### CHOICE OF A MAJOR FIELD

The requirement of 42 s.h. in a major field is based primarily on the belief that some advanced study in one subject, together with related work in allied subjects, is a valuable part of a general education. The selection of a major field usually depends on a student's cultural or vocational interests.

### GENERAL PROGRAM

The General Program is designed for the student whose primary interest is in one of the liberal arts subjects. The subjects in which major work is offered are: Art, Botany, Chemistry, Economics, Education,

\* Courses open primarily to Freshmen are numbered from 1 to 49 and a list of them is given under "Courses of Instruction, Trinity College and the Woman's College."

English, French, Geology, German, Greek, History, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Religion, Sociology, Spanish, Zoology.

### **SPECIALIZED PROGRAMS**

The student who has chosen a vocation may wish to include specialized training in his program. The following programs of study in preparation for various professions or professional schools are outlined for the student's guidance.

#### **BUSINESS**

The student who plans to engage in some form of business may choose his major work in economics or he may take the following specified courses to satisfy the requirements for the major and related work.

Freshman Year: Economics 11 (recommended but not required), Mathematics 5 and 16.

Sophomore Year: Economics 51-52, Economics 57-58, Political Science 61-62.

Junior and Senior Years: Economics 138, Economics 143, Economics 144, Economics 153, Economics 171-172 or Economics 105 and 158, Economics 181-182, Economics 189. Three hours of the Economics courses shown in Economics Major Section B.

In addition to the courses specified above, 9 s.h. from other courses in the Department of Economics and Business Administration must be elected.

A student planning to take the examination to qualify as a Certified Public Accountant may, with the permission of the Department of Economics, substitute courses in accounting (including Economics 184) for courses 11, 138, 144, 189, and for 3 s.h. of the electives in Section B (page 105).

#### **RELIGIOUS WORK**

A student who plans to enter the ministry or other religious work should have a broad liberal arts training and may major in religion or any other subject. It is suggested that the student include in his program as many as possible of the following courses.

Freshman Year: Religion 1-2, History 1-2.

Sophomore Year: Religion (6 s.h.), Economics 51-52 or Political Science 61-62, English Literature (6 s.h.).

Junior Year: Religion (6 s.h.), Psychology 91-92, English 151-152.

Senior Year: Religion (6 s.h.), Sociology (6 s.h.), Philosophy (6 s.h.).

#### **SOCIAL WORK**

The student who plans to pursue professional studies in preparation for social work (such as family welfare, child welfare, public welfare, probation and parole and similar forms of neighborhood and community work) should take his major work in sociology, with related work in

other social sciences. The following courses should be included.

History 1-2, or 51-52.

Economics 51-52.

Political Science 61-62.

Psychology 91-92.

Philosophy (6 s.h.).

Zoology is recommended for the required course in Natural Science. Electives should be chosen mainly from History, Economics, Political Science, Education, Sociology, Philosophy, Psychology, or Religion.

#### TEACHING

The program for students who intend to teach is designed to prepare for positions both in the elementary school and in the high school. All prospective teachers, regardless of the type of school in which they expect to teach, (a) must take a sequence of four basic courses in the Department of Education, namely, Education 84, 88, 103, and 118 (the combination of Education 8 and 68 may be substituted for Education 88); (b) should read carefully the certification requirements of the state in which they plan to teach and should arrange their programs with their departmental adviser accordingly; and (c) should begin early the required sequence of courses in Education, taking Education 84 and/or 88 first, preferably in the first semester of the Sophomore year.

**High School Teaching.** Students may meet certification requirements by qualifying in one teaching subject, but they are strongly advised to choose their electives to meet requirements in two teaching subjects. In any case their programs must include courses in education and in other subjects sufficient to satisfy the certification requirements of the state in which they will teach. Courses in materials and methods should be reserved for the Senior year; and courses in observation and practice teaching may be taken *only* in the Senior year.

**Elementary School Teaching.** Students preparing to teach in the elementary school must complete the following specific requirements: Education 142, History 91 or 92, and Political Science 63 or 61-62, Economics 115-116, Music 151, Physical Education 102, and Health Education 112. Education 101, the materials and methods courses, and observation and practice teaching should be reserved for the Senior year.

#### PREPARATION FOR GRADUATE SCHOOL

The student who plans to enter a graduate school of arts and sciences for advanced study should consult an adviser in the field of the proposed advanced study concerning suitable preparation. Most graduate schools have definite requirements in foreign languages for all students. Candidates for the degree of Doctor of Philosophy are required to pass reading examinations, usually in German and French. In some cases other languages may be substituted. As soon as practicable, the student should ascertain the requirements of the particular graduate school he desires to enter.



**PREPARATION FOR LAW SCHOOL**

Students who plan to study law may select their major work in any field. The following courses are recommended:

Economics 51-52, 57-58.  
 English 101-102.  
 History 1-2 or 51-52, 105-106.  
 Philosophy 48 and 91.  
 Political Science 61-62.  
 Sociology 91-92.

Advisers for the pre-legal students are: Mr. Clark Allen, Mr. J. H. Hallowell, and Mr. W. B. Hamilton.

**PREPARATION FOR MEDICAL OR DENTAL SCHOOL**

Students planning to enter a medical or dental school should select the following foundation courses for the study of medicine:

Chemistry 1-2, 61, 151-152.  
 Mathematics 5, 6.  
 Physics 51-52.  
 Zoology 1-2, 53.

Pre-medical and pre-dental students may take their major work in a single department, or they may satisfy the requirement for the major and related work by the completion of at least 13 semester hours chosen from the following courses in addition to the 48 semester hours of foundation courses above:

Botany 101 or Zoology 110.  
 Chemistry 70.  
 Mathematics 51, 52.  
 Physics 101-102.  
 Psychology 91-92.  
 Zoology 92, 171.

Other science courses numbered above 100 may be substituted for these with the approval of an adviser for the pre-medical group and the Dean. When the major work is in science, electives in social sciences or humanities are recommended. It is advisable to choose German or French as the foreign language. Each pre-medical student should ascertain the requirements and recommended courses of the medical school that he expects to attend.

Advisers for the pre-medical students are: Mr. C. C. Hatley, Mr. Mychyle W. Johnson, and Mr. Charles K. Bradsher.

**HONORS PROGRAM**

*Purpose:* Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and

intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

*General Rules:*

I. A student who has sixty-two semester hours of work to his credit and who has completed the minimum requirements for graduation may apply to read for Honors. A departmental committee may, however, permit students to take as much as twelve hours of the minimum uniform requirements in the Junior and Senior years provided that these are offset by the same number of hours in related subjects taken previously in courses not open primarily to Freshmen.

II. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

III. The minimum amount of work that may be taken in the major department shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours.

IV. The related work, which constitutes at least two-fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

*Departmental Honors:* Honors courses are available to qualified students in the following departments: Botany, Chemistry, Economics, Education, English, German, Greek, History, Physics, Psychology, and Religion.

An undergraduate wishing to qualify for Departmental Honors usually enters the General Group during the Freshman year. At the close of the Sophomore year he may apply to read for Honors in a particular department. The requirements for admission to candidacy for Honors vary in the different departments. The student should consult the special requirements set forth in the "Departmental Honors Program." The Departmental Committee determines the eligibility of the various applicants for Honors reading within the department.

Transfer students from colleges of approved standing may be admitted to candidacy for Honors provided they enter here as Sophomores with high records in their chosen field of work. They should consult by April 15 the Honors Adviser of the Department in which they are interested.

The work required of students in the Departmental Honors Group consists of (1) the minimum uniform requirements; (2) the program of Honors for the Junior and Senior years; and (3) elective work sufficient to complete the semester hours necessary for graduation.

Study in a Departmental Honors course always includes work in regular open courses. In both Junior and Senior years it may, and usually does, also include work under special Instruction (seminarial or tutorial) and assignments of independent reading.

All candidates who complete satisfactorily the minimum uniform requirements, a Departmental Honors course, and elective work sufficient to earn the necessary hours for graduation will be recommended by the Departmental Committee to the Dean of the College for graduation with Honors.

For brief outlines of the various plans for Departmental Honors the student should see the section, "Departmental Honors Program," among the offerings of each department listed above. Students are also urged to consult the honors adviser of the department in which they are primarily interested. A list of these advisers follows:

Botany: Miss Addoms

Chemistry: Mr. Vosburgh

Education: Mr. Proctor

English: Mr. Irving

German: Mr. Vollmer

History: Mr. Laprade

Physics: Mr. Hatley

Psychology: Mr. Zener

Religion: Mr. Myers

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

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The program of study required for the Bachelor of Science degree must include:

	S.H.
English 1-2 .....	6
French and German (second college year) .....	12-24
Mathematics .....	6
Natural Science .....	8
Economics, History, or Political Science .....	6
Religion .....	6
Physical Education .....	4
Major and related work .....	48
Free electives to make a total of .....	124

**English 1-2, 6 s.h.**—This requirement is normally met by the completion of English 1 and 2. A Freshman whose scores on the placement tests are too low to justify his admission into English 1 is required to earn credit for English 1 before he may enter English 1. A Freshman who satisfies the Department of English of his superior ability in composition may substitute, however, another English course for English 1.

**French and German.**—Bachelor of Science candidates must complete at least the second college year, or equivalent as determined by examination, of both French and German.

**Mathematics, 6 s.h.**—This requirement may be met by completion of Mathematics 5 and 6.

**Natural Science, 8 s.h.**—This requirement can be satisfied by courses in one of the natural sciences, namely, Botany, Chemistry, Geology, Physics, and Zoology. The courses must include laboratory work, and may not be counted as part of the major or related work.

**Economics, History, or Political Science, 6 s.h.**—A student who does not present for entrance two acceptable units of history (exclusive of other social work) must take a course in history; otherwise, he has his choice of economics, history, or political science. The courses that will satisfy this requirement are listed under "Courses of Instruction."

**Religion, 6 s.h.**—The courses that will satisfy the requirement in Religion are listed in this Bulletin under "Courses of Instruction."

**Major and Related Work, 48 s.h.**—Major and related work consists of forty-eight semester hours in the Natural Sciences. This work must be selected from the Departments of Botany, Chemistry, Geology, Mathematics, Physics, Psychology, and Zoology. The major work consists of not less than twenty-four semester hours in one department, the choice of courses being subject to the approval of the department. The major work does not include courses primarily open to Freshmen. The related work is taken in at least two other departments and is selected subject to the approval of the major department. It may not include more than one course primarily open to Freshmen. A minimum of eight semester hours of the total of forty-eight must be in laboratory science. Further information concerning the requirements for the major and related work in the various departments will be found under "Courses of Instruction."



**Free Electives.**—In addition to the above, the student must elect sufficient courses to complete, with an average grade of "C," the one hundred and twenty-four semester hours necessary for graduation.

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of forty semester hours.

No Senior may take for credit any course primarily open to Freshmen, and no Junior may take for credit more than one course primarily open to Freshmen. A list of these courses is published under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

On or before the date announced for the spring registration, every Sophomore in this group should select his major department in the Natural Sciences and arrange under the guidance of an adviser in the major department his program of studies for the following year. He should obtain the adviser's written approval of all courses selected in the division before submitting his program to the Dean for final action. In like manner, each upperclassman will recheck the courses in his division of concentration each year with a representative of his major department.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING EDUCATION

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The requirements for the degree of Bachelor of Science in Nursing Education are designed to prepare qualified graduate nurses for administrative, teaching, and supervisory positions in schools of nursing and in nursing service agencies.

To be eligible for admission to Duke University as a candidate for this degree a student must meet the following requirements:

1. Graduation from an approved secondary school with at least fifteen acceptable units of credit. (See specific requirements for admission to Trinity College and the Woman's College.)
2. Graduation from an approved school of nursing which provides satisfactory preparation in medical, surgical, pediatric, and obstetric nursing, as a minimum.
3. Satisfactory scores on specified tests.
4. Satisfactory ratings from three individuals, preferably former teachers and supervisors with whom the individual has had fairly recent contact.

Credit for 120 semester hours (exclusive of physical education) on which an average grade of at least "C" is made is required for the degree of Bachelor of Science in Nursing Education. The work of the final year must be taken in residence at Duke University. The program of studies leading to this degree must include:

1. Minimum general education requirements:

May be taken at Duke University or at any accredited college or university.

	S.H.
English 1-2 .....	6
Natural science .....	8
History, economics, or political science .....	6
Sociology .....	3-6
Psychology .....	3-6
Electives .....	12-18
(Literature, art, music, religion, ethics, language are suggested.)	

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38-50

2. Basic Nursing Program ..... 40 (maximum)  
 May be taken at the Duke School of Nursing or at any approved school of nursing. The amount of credit which is granted for the nursing school program is determined on an individual basis.

3. Courses in Education and Nursing Education:

S.H.

88 Psychological Foundations of Modern Education .....	3
110 Introduction to Measurement and Research in Education	3
84N Social Foundations of Nursing Education .....	3
101N The Curriculum of the School of Nursing .....	3
115N Nursing Education—Principles	
116N and Practices .....	6
117 Community Nursing Service—Seminar in Field Trips of Community Agencies .....	2

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20

4. Field of Concentration ..... 16  
Sixteen semester hours in one field, such as chemistry, physics, psychology, sociology, zoology, or in a clinical area and related subjects. No Freshman work may be included in these sixteen semester hours.

5. Professional Experience:

One year of experience as a graduate nurse is required before the degree is awarded.

## COMBINED ACADEMIC-PROFESSIONAL COURSES

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The provision whereby a Senior may elect the work of the first year in a professional school of the University shall apply solely to eligible students in Trinity College or the Woman's College. The privilege of completing a combined course for the degree is conditioned upon admission to the professional school at the close of the Junior year. A student thus admitted registers as a Senior in the College and as a first-year student in the professional school.

### ACADEMIC-LAW COMBINATION

A student who has completed, with an average grade of "C" or higher, ninety-six semester hours of undergraduate work, including the minimum uniform requirements for the degree of Bachelor of Arts and the work of the Junior year in his major and related fields, may, with the approval of the Dean of the College, transfer to the Duke University School of Law and be eligible for the degree of Bachelor of Arts from Duke University upon the satisfactory completion therein of the work of the first year.

It is understood that this provision shall apply solely to eligible undergraduates who have completed three years in residence in Duke University, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the bachelor degree.

No single discipline or program of study can be described as the best preparation for the study of law. There are various methods of approach to legal study, and the students differ with respect to the undergraduate studies by which they profit most in preparing themselves for law school.

Completion of the undergraduate work necessary to qualify for the Academic-Law Combination does not insure admission to the Duke University School of Law, nor impose any restriction whatever upon its freedom in selecting students for admission.

The student who does not desire to avail himself of the Academic-Law Combination above set forth may, nevertheless, enter the Law School when he has satisfactorily completed three years of academic study and has met the other entrance requirements of that school. In the case of veterans with good college records, military service may be substituted for one year of the three-year entrance requirement.

Students wishing information concerning admission to the School of Law are invited to consult with the Dean of that school.

### ACADEMIC-FORESTRY COMBINATION

A student who has completed with an average grade of "C" or higher the program of study given below may, with the approval of the Dean of the College, transfer to the School of Forestry and be eligible for the degree of Bachelor of Science from Duke University upon the satisfac-



tory completion of one year's work. It is understood that this provision shall apply solely to eligible undergraduates who have completed three years in residence in Duke University. The professional degree of Master of Forestry may be obtained on the satisfactory completion of an additional year in the School of Forestry.

The program of studies in preparation for admission to the School of Forestry is divided into four parts: (1) a group of studies required of all students; (2) courses required in a selected division of concentration; (3) additional elective courses sufficient to make a total of at least 92 semester hours of credit; and (4) summer field work in surveying and forest mensuration as described below.

The studies required of all students, of which the first four, together with six semester hours of a language, should ordinarily be taken in the Freshman year, are as follows:

	S.H.
Botany 1-2 .....	8
Chemistry 1-2 .....	8
English 1-2 .....	6
Engineering Drawing 1-2 .....	4
Modern Foreign Language* .....	12-18
Mathematics 5, 6 .....	6
Physics 1-2 .....	8
Economics 51-52 .....	6
Geology 51 .....	4

At the end of the Freshman year each student shall select a division of concentration. One of the following programs of concentration is recommended:

Botany. Botany 52, 151, 156, one additional course in Botany and Zoology 1.

Chemistry. Chemistry 61, 70, and 151-152; and Botany 151.

Economics. Economics 57-58, two additional semester courses in economics, and Political Science 61-62.

A student who does not select one of the above programs must complete the work of the Junior year in a division of concentration.

Summer field work is required of all students in the School of Forestry. This program of 12 weeks, preferably to be taken upon completion of the Junior year, includes Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), 5 s.h.; and Forestry S151 (Forest Mensuration), 4 s.h.

Completion of the first three years of work toward the Bachelor of Science degree does not insure admission to the Duke University School of Forestry, nor impose any restriction whatever upon its freedom in selecting students for admission.

Students wishing information concerning admission to the School of Forestry are invited to consult with the Dean of that School.

### ACADEMIC-NURSING COMBINATION

A student who graduated from the Duke University School of Nursing in September, 1947, or thereafter, with an average grade of "C" or better may, upon recommendation of the Dean of the School of Nursing, apply for admission to the Woman's College of Duke University. If accepted,

\* The requirement is the same as for the Degree of Bachelor of Science, except that Spanish may be substituted for French.

she may obtain the degree of Bachelor of Arts or Bachelor of Science by fulfilling the requirements of either degree.

Forty semester hours of credit toward the 120 semester hours (exclusive of physical education) required for the Bachelor's degree are allowed for the three-year nursing program. At least 30 semester hours must be taken in residence in the Woman's College of which 24 semester hours must be in courses numbered 100 or above. An average grade of "C" or better is required for all work.

The program of studies leading to the degree of Bachelor of Arts must include:

1. Minimum requirements:	S.H.
English 1-2 .....	6
Natural Science .....	8
Language (completion of the third college year) .....	6-18
Religion .....	6
History, economics, or political science .....	6
	<hr/>
	32-44
2. Basic nursing program .....	40
3. Field of concentration:	
At least twelve semester hours in one department other than nursing in courses not primarily open to Freshmen .....	12
4. Electives .....	24-36

To be eligible for the degree of Bachelor of Science, a student must complete the course of study outlined under the Requirements for the Degree of Bachelor of Science.

## COURSES OF INSTRUCTION, TRINITY COLLEGE AND THE WOMAN'S COLLEGE

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*Note: Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.*

*Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year-course and must normally be continued throughout the year if credit is received. A student must secure written permission from the instructor in order to receive credit for either semester of a year-course.*

*This is a condensed description of courses. For a full description see the Bulletin of Undergraduate Instruction.*

### COURSES OPEN PRIMARILY TO FRESHMEN

Art 1-2	History 1-2
Botany 1-2	Latin 1-2, 3, 4
Chemistry 1-2	Mathematics 1, 5, 6, 15, 16
Economics 11	Music 1-2, 11-12, 47-48
Education 1, 8	Philosophy 48, 49
English 1-2	Physical Education 1, 2
French 1-2, 3-4	Physics 1-2
German 1-2, 3-4	Political Science 21-22
Greek 15	Religion 1-2
Health Education 41	Spanish 1-2, 3-4
	Zoology 1-2

### AESTHETICS, ART, AND MUSIC

PROFESSOR KATHARINE GILBERT, CHAIRMAN; ASSISTANT PROFESSOR SUNDERLAND, DIRECTOR OF UNDERGRADUATE STUDIES IN ART; ASSOCIATE PROFESSOR HALL, SUPERVISOR OF FRESHMAN INSTRUCTION IN ART; ASSISTANT PROFESSOR BONE, DIRECTOR OF UNDERGRADUATE STUDIES IN MUSIC; ASSISTANT PROFESSOR J. MUELLER, SUPERVISOR OF FRESHMAN INSTRUCTION IN MUSIC; ASSISTANT PROFESSORS JENKINS, KLENZ, MARKMAN, AND E. G. MUELLER; MRS. SAVILLE

#### AESTHETICS

##### FOR SENIORS AND GRADUATES

201-202. The Philosophy of Art.—6 s.h.	PROFESSOR GILBERT
213-214. History of Aesthetics.—6 s.h.	PROFESSOR GILBERT

#### ART

1-2. History of Art.—6 s.h.	ASSOCIATE PROFESSOR HALL
51-52. History of Art.—6 s.h.	ASSISTANT PROFESSOR MARKMAN
53-54. Theory of Representation and Design.—6 s.h.	ASSISTANT PROFESSOR E. MUELLER

55-56. Art Laboratory.—Prerequisite: Art 53-54, or consent of the instructor. 4 s.h.	ASSISTANT PROFESSOR E. MUELLER
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- 61-62. Architectural History and Design.—6 s.h.  
ASSOCIATE PROFESSOR HALL
94. American Art.—3 s.h.  
ASSISTANT PROFESSOR E. MUELLER
101. Mediaeval Architecture.—3 s.h.  
ASSISTANT PROFESSOR SUNDERLAND
102. Mediaeval Painting and Sculpture.—3 s.h.  
ASSISTANT PROFESSOR SUNDERLAND
103. Renaissance and Baroque Architecture: Italy.—3 s.h.  
ASSOCIATE PROFESSOR HALL
104. Renaissance and Baroque Architecture: Spain and the North.—3 s.h.  
ASSOCIATE PROFESSOR HALL
105. European Architecture since 1700.—3 s.h.  
ASSOCIATE PROFESSOR HALL
106. Architecture of the Americas.—3 s.h.  
ASSOCIATE PROFESSOR HALL
110. English Architecture.—3 s.h.  
ASSOCIATE PROFESSOR HALL
123. Renaissance Painting: Italy.—3 s.h.  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND
124. Baroque Painting: Italy.—3 s.h.  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND
125. Renaissance Painting: The North.—3 s.h.  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND
126. Baroque Painting: The North.—3 s.h.  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND
127. Renaissance and Baroque Sculpture: Italy.—3 s.h.  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND
130. Painting since 1700.—3 s.h.  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND
150. Survey of Painting.—3 s.h.  
ASSISTANT PROFESSORS JENKINS AND SUNDERLAND
- 157-158. Advanced Laboratory in Art.—Prerequisite: Art 55-56. 4 s.h.  
ASSISTANT PROFESSOR E. MUELLER
215. Religious Art of the Ancient Near East.—3 s.h.  
ASSISTANT PROFESSOR MARKMAN
216. Religious Art of the Classical World.—3 s.h.  
ASSISTANT PROFESSOR MARKMAN

## DEPARTMENTAL MAJOR IN ART

*Prerequisite:* Art 1-2 or 51-52 or 61-62.

*Major Requirements:* Art 53-54, and eighteen additional semester hours in the Department.

## MUSIC

## THEORY

- 11-12. Fundamentals of Music (Theory I).—6 s.h.  
ASSISTANT PROFESSOR KLENZ
- 61-62. Fundamentals of Music (Theory I).—6 s.h.  
ASSISTANT PROFESSOR KLENZ
- 73-74. Harmony and Smaller Forms (Theory II).—Prerequisite: Music 11-12. 6 s.h.  
ASSISTANT PROFESSOR KLENZ
- 117-118. Advanced Harmony and Counterpoint (Theory III).—Prerequisites: Music 11-12 and 73-74. 6 s.h.  
ASSISTANT PROFESSOR KLENZ



121-122. **Orchestration and Conducting.**—Prerequisite: Music 11-12, or consent of the instructor. 6 s.h. ASSISTANT PROFESSOR BONE

### HISTORY AND CRITICISM

1-2. **Introduction to Music.**—6 s.h. ASSISTANT PROFESSOR J. MUELLER

51-52. **Introduction to Music.**—6 s.h. ASSISTANT PROFESSOR J. MUELLER

81-82. **History of Music.**—Prerequisites: Music 1-2 or 51-52, or 11-12, or consent of the instructor. 6 s.h. MRS. SAVILLE

131-132. **Orchestral Literature.**—Prerequisites: Music 1-2 or 51-52, or consent of the instructor. 6 s.h. ASSISTANT PROFESSOR BONE

137. **Chamber Music.**—Prerequisites: Music 1-2 or 51-52, or 11-12, or consent of the instructor. 3 s.h. ASSISTANT PROFESSOR J. MUELLER

138. **Contemporary Music.**—Prerequisites: Music 1-2 or 51-52, or 11-12, or consent of the instructor. 3 s.h. ASSISTANT PROFESSOR KLENZ

141-142. **Choral Literature.**—Prerequisites: Music 1-2 or 51-52, or 81-82, or consent of the instructor. 6 s.h. MRS. SAVILLE

### MUSIC EDUCATION

101. **Vocal Methods.**—Prerequisites: Music 1-2 or 51-52, or 11-12, or 151-152. 3 s.h. MRS. SAVILLE

102. **Instrumental Methods.**—Prerequisites: Music 1-2 or 51-52. 3 s.h. ASSISTANT PROFESSOR BONE

151-152. **Fundamentals of Music for Education Students.**—6 s.h. MRS. SAVILLE

### APPLIED MUSIC

Members of the Department offer instruction in the following media:  
A. Piano; B. Strings; C. Woodwinds; D. Brass.

A student who plans to take Applied Music should consult with the appropriate faculty member as early as possible before registering for the course offered in his chosen medium at his class level. His proficiency before registration is tested by audition and rated as Grade I-VIII. Upon satisfactory completion of the course his proficiency is again rated, and his Grade recorded as a Roman numeral following the course number; *e.g.*, a Freshman who passes the first semester course in Piano with a proficiency rating of Grade VI is recorded as having completed Music 47A-VI, a Senior who passes the first semester course in Violin with a proficiency rating of Grade II is recorded as having completed Music 197B-II, and so on. This is in addition to the customary letter-grades recorded for students in all courses.

47A-48A. **Piano.**—Freshmen only. 2 s.h. MRS. SAVILLE

97A-98A. **Piano.**—Sophomores only. 2 s.h. MRS. SAVILLE

147A-148A. **Piano.**—Juniors only. 2 s.h. MRS. SAVILLE

197A-198A. **Piano.**—Seniors only. 2 s.h. MRS. SAVILLE

47B-48B. **Strings.**—Freshmen only. 2 s.h.  
Cello: ASSISTANT PROFESSOR KLENZ  
Violin, Viola: ASSISTANT PROFESSOR J. MUELLER

97B-98B. **Strings.**—Sophomores only. 2 s.h.  
Cello: ASSISTANT PROFESSOR KLENZ  
Violin, Viola: ASSISTANT PROFESSOR J. MUELLER

**147B-148B. Strings.—Juniors only. 2 s.h.**

Cello: ASSISTANT PROFESSOR KLENZ  
Violin, Viola: ASSISTANT PROFESSOR J. MUELLER

**197B-198B. Strings.—Seniors only. 2 s.h.**

Cello: ASSISTANT PROFESSOR KLENZ  
Violin, Viola: ASSISTANT PROFESSOR J. MUELLER

**47C-48C. Woodwinds.—Freshmen only. 2 s.h.**

ASSISTANT PROFESSOR BONE

**97C-98C. Woodwinds.—Sophomores only. 2 s.h.**

ASSISTANT PROFESSOR BONE

**147C-148C. Woodwinds.—Juniors only. 2 s.h.**

ASSISTANT PROFESSOR BONE

**197C-198C. Woodwinds.—Seniors only. 2 s.h.**

ASSISTANT PROFESSOR BONE

**47D-48D. Brass.—Freshmen only. 2 s.h.**

ASSISTANT PROFESSOR BONE

**97D-98D. Brass.—Sophomores only. 2 s.h.**

ASSISTANT PROFESSOR BONE

**147D-148D. Brass.—Juniors only. 2 s.h.**

ASSISTANT PROFESSOR BONE

**197D-198D. Brass.—Seniors only. 2 s.h.**

ASSISTANT PROFESSOR BONE

*Requirements and Credits:* One semester hour of credit is allowed for  $\frac{1}{2}$  hour of private instruction per week and a minimum of one hour of practice daily, under the particular conditions specified below, and in accordance with standard university practice in grading proficiency. For any number of semester hours of credit in Applied Music, an equal number of hours must be taken in Music Theory or Music History.

Majors in Music Theory or Music History must earn 8 s.h. credit in Applied Music. Credit may be reckoned from Grade I.

Majors in Music Education must earn 12 s.h. in Applied Music, as follows: Instrumental Major—8 s.h. credit in the Major medium, reckoned from Grade V; 4 s.h. credit in a Minor medium, other than piano, reckoned from Grade I. In addition, piano proficiency through Grade II is required.

Students other than Music Majors may receive not more than 8 s.h. nor less than 4 s.h. credit for work in Applied Music. Credit may be reckoned from Grade I.

*Fees per Semester:* Fees for instruction in Applied Music include rental of practice facilities sufficient to meet the credit requirements. They are payable to the Treasurer's Office of Duke University at the beginning of each semester, as follows:

One $\frac{1}{2}$ hour lesson per week for 15 weeks.....	\$40.00
Either	
One hour's use daily of cubicle with piano.....	15.00
Or	
One hour's use daily of cubicle without piano.....	10.00

**DEPARTMENTAL MAJOR IN MUSIC**

In Music Theory:

*Prerequisite:* Music 11-12.

*Major Requirements:* Music 73-74, 81-82, 117-118, and eight semester hours of Applied Music. The completion of an original large form composition for Chamber group, Chorus, or Orchestra as a synthesis of all requirements; this work to be undertaken in consultation with the faculty.

## In Music History and Criticism:

*Prerequisite:* Musfc 11-12.*Major Requirements:* Music 81-82, 131-132, 141-142, and eight semester hours of Applied Music.

## In Music Education:

*Prerequisite:* Music 11-12.*Major Requirements:* Music 73-74, 81-82, 101 or 102 or 151 or 152, and twelve semester hours of Applied Music.

## DEPARTMENTAL ORGANIZATIONS

Students taking Applied Music are urged by the Department to participate in one or more of the following departmental organizations:

Duke University Symphony Orchestra  
 Duke University Chamber Orchestra  
 Duke University Concert Band  
 Duke University Madrigal Singers

## BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN; PROFESSOR OOSTING, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR ANDERSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR ADDOMS, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS HARRAR, KRAMER AND WOLF; ASSOCIATE PROFESSOR PERRY; MR. WARREN;  
 AND ASSISTANTS

1. General Botany.—4 s.h. STAFF
2. General Botany.—Prerequisite: Botany 1. 4 s.h. STAFF
51. Culture and Propagation of Plants.—Prerequisite: one year of botany. 4 s.h. PROFESSOR ADDOMS
52. Plant Identification.—Prerequisite: one year of botany. 4 s.h. PROFESSOR BLOMQUIST
55. Morphology and Anatomy of Vascular Plants.—Prerequisite: one year of botany. 4 s.h. PROFESSOR OOSTING
101. Principles of Heredity.—Prerequisite: one (high-school or college) course in biology, botany, or zoology. High-school or college algebra recommended. 3 or 4 s.h. ASSOCIATE PROFESSOR PERRY
103. General Bacteriology.—Prerequisite: one year of botany or zoology, or equivalent. 4 s.h. MR. WARREN
104. The Structure and Identification of Lower Plants.—Prerequisite: one year of botany. 4 s.h. ASSOCIATE PROFESSOR ANDERSON
151. Introductory Plant Physiology.—Prerequisite: Botany 1, 2 or equivalent; one year of chemistry recommended. 4 s.h. PROFESSOR KRAMER
156. Plant Ecology.—Prerequisites: Botany 1, 2 and 52, or equivalent. 4 s.h. PROFESSOR OOSTING
202. Genetics.—Prerequisites: one year of botany or zoology, or equivalent, and college algebra. 4 s.h. ASSOCIATE PROFESSOR PERRY  
 [Not offered in 1949-50]
203. Plant Cytology.—Prerequisite: one year of botany. 4 s.h. ASSOCIATE PROFESSOR ANDERSON

204. **Advanced Plant Anatomy.**—Prerequisite: Botany 55 or equivalent.  
4 s.h. PROFESSOR ADDOMS

216. **Botanical Microtechnique.**—Prerequisite: two semesters of botany.  
4 s.h. ASSOCIATE PROFESSOR ANDERSON

[Not offered in 1949-50]

221. **Structure and Classification of Fungi.**—Prerequisite: two semesters of botany. 4 s.h. PROFESSOR WOLF

222. **Physiology and Ecology of Fungi.**—Prerequisite: Botany 221 or equivalent. 4 s.h. PROFESSOR WOLF

225-226. **Special Problems.**—Students with adequate training may do special work in the following fields:

a. **Bacteriology, Mycology, and Plant Pathology.** PROFESSOR WOLF

b. **Cytology.** ASSOCIATE PROFESSOR ANDERSON

c. **Ecology.** PROFESSOR OOSTING

d. **Genetics.** ASSOCIATE PROFESSOR PERRY

e. **Morphology and Anatomy of Higher Groups.**

PROFESSORS ADDOMS, HARRAR, AND OOSTING

f. **Morphology and Taxonomy of Lower Groups.**

PROFESSOR BLOMQUIST AND ASSOCIATE PROFESSOR ANDERSON

g. **Physiology.**

PROFESSORS KRAMER AND ADDOMS

h. **Plant Microchemistry.**

PROFESSOR ADDOMS

i. **Taxonomy of Higher Groups.**

PROFESSOR BLOMQUIST

j. **Senior Seminar.**—1 s.h.

STAFF

252. **Advanced Plant Physiology.**—Prerequisite: Botany 151 or equivalent; organic chemistry recommended. 4 s.h. PROFESSOR KRAMER

255. **Advanced Taxonomy.**—Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h. PROFESSOR BLOMQUIST

256. **Field Ecology.**—Prerequisites: Botany 1, 2, and 52 or equivalent.  
4 s.h. PROFESSOR OOSTING

#### FOREST BOTANY

224. **Forest Pathology.**—Prerequisites: Botany 1, 2. 3 or 4 s.h.

PROFESSOR WOLF

253. **Dendrology.**—Prerequisite: one year of botany. 3 s.h.

PROFESSOR HARRAR

Related courses which may be counted toward a major in botany. Zoology

110. **Introduction to Genetics.** 2 s.h. ASSISTANT PROFESSOR JOHNSON

#### DEPARTMENTAL MAJOR

*Prerequisites:* Botany 1 and 2.

*Major Requirements:* A minimum of twenty-one hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser. All majors are expected to register for Senior Seminar for one semester of their Senior year.

#### DEPARTMENTAL HONORS PROGRAM

I. *Prerequisites:* Botany 1-2. A year course in each of three other sciences acceptable to the Departmental Committee. Some of these may be taken concurrently with the Honors work.



**II. Honors Work:****a. Botany.**

1. Scheduled courses. At least five courses (18-20 semester hours) beyond Botany 1-2.
2. Reading courses and problems, chiefly in the Senior year. Nine semester hours. In addition to scheduled courses, each Honors student will take reading courses in such fields as History of Botany and Theories of Biology; or he may take reading courses in special fields; or he may undertake a special problem; or he may carry on both reading and a problem. This work will count as nine semester hours and will extend through a year at least. The student will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses, and he must make a report on his problem.

**b. Philosophy—Six semester hours.****c. Electives in Botany or in other departments, subject to the approval of the Departmental Committee.**

**III. General Honors Examination:** In the spring semester of the Senior year, each student must pass a general examination on the entire field of his Honors work. The Examining Committee consists of the Departmental Committee and such Advisers as have been concerned with his Honors work. The student must present a written report upon his problem and such written reports upon his reading as may be required, before he is permitted to take the general examination.

**CHEMISTRY**

PROFESSOR SAYLOR, EXECUTIVE OFFICER AND DIRECTOR OF UNDERGRADUATE STUDIES;  
ASSOCIATE PROFESSOR HILL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BIGELOW, GROSS, HAUSER, LONDON AND VOSBURGH; ASSOCIATE PROFESSORS BRADSHER, BROWN AND HOBBS; DRs. AMORE, DEWALD, AND STROBEL; MR. THOMPSON, AND ASSISTANTS

**1-2. General Inorganic Chemistry.—8 s.h.**

ASSOCIATE PROFESSORS HILL, HOBBS, BROWN AND BRADSHER;  
DR. AMORE, DR. DEWALD, DR. STROBEL, MR. THOMPSON,  
AND ASSISTANTS

**61. Fundamentals of Analytical Chemistry.**—Prerequisites: Chemistry 1-2, and Mathematics 6 or equivalent. **4 s.h.**

PROFESSORS SAYLOR AND VOSBURGH; ASSOCIATE PROFESSOR HOBBS;  
DR. DEWALD, DR. STROBEL, AND ASSISTANTS

**70. Quantitative Analysis.**—Prerequisite: Chemistry 61. **4 s.h.**

PROFESSORS SAYLOR AND VOSBURGH; ASSOCIATE PROFESSOR HOBBS;  
DR. DEWALD, DR. STROBEL, AND ASSISTANTS

**131. Advanced Quantitative Analysis.**—Prerequisite: Chemistry 70. **3 s.h.**  
PROFESSORS VOSBURGH AND SAYLOR AND ASSISTANT

**151-152. Organic Chemistry.**—Prerequisite: Chemistry 61. Course 151 is prerequisite for 152. **8 s.h.**

PROFESSORS BIGELOW AND HAUSER; ASSOCIATE PROFESSORS  
BRADSHER AND BROWN; AND ASSISTANTS

**206. Elements of Theoretical Chemistry.**—Prerequisites: Chemistry 70, 151-152, Physics 51-52 or 1-2 and Mathematics 6 s.h.

With the permission of the Director of Graduate Studies, graduate students from other departments may offer other advanced science courses in place of some of these prerequisites. **4 s.h.**

PROFESSORS SAYLOR AND GROSS;  
ASSOCIATE PROFESSOR HOBBS

215-216. **Advanced Inorganic Chemistry.**—Prerequisites: Chemistry 70, 151-152, and 261-262. 6 s.h.

PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR HILL

233. **Instrumental Analysis.**—Prerequisites: Chemistry 70 and one year of physics. 2 s.h.

ASSOCIATE PROFESSOR HOBBS; PROFESSORS  
VOSBURGH AND SAYLOR

234. **Physico-Chemical Methods of Analysis.**—Prerequisites: Chemistry 70 and 261-262; the latter may be taken concurrently. 2 s.h.

ASSOCIATE PROFESSOR HOBBS; PROFESSORS  
VOSBURGH AND SAYLOR

236. **Theory of Analytical Chemistry.**—Prerequisites: Chemistry 70 and 261-262. 1 s.h.

PROFESSOR VOSBURGH

251. **Qualitative Organic Analysis.**—Prerequisites: Chemistry 70 and 151-152. 3 s.h.

PROFESSOR HAUSER AND ASSISTANT

252. **Advanced Organic Preparations.**—Prerequisites: Chemistry 70 and 151-152. 1 or 2 s.h.

ASSOCIATE PROFESSOR BROWN AND PROFESSOR BIGELOW

253-254. **Advanced Organic Chemistry.**—Prerequisites: Chemistry 70 and 151-152. 4 s.h.

PROFESSORS BIGELOW AND HAUSER

261-262. **Physical Chemistry.**—Prerequisites: Chemistry 70, 151-152, Physics 51-52 or 1-2 and Mathematics 51-52 or equivalent. 6 s.h.

PROFESSORS GROSS AND SAYLOR; ASSOCIATE PROFESSOR HOBBS

271. **Introduction to Research.**—1 s.h.

PROFESSORS BIGELOW, GROSS, AND VOSBURGH

275-276. **Research.**—3 or 6 s.h.

PROFESSORS BIGELOW, GROSS, HAUSER, LONDON, SAYLOR, VOSBURGH;  
ASSOCIATE PROFESSORS BRADSHER, BROWN, HILL, AND HOBBS

#### DEPARTMENTAL MAJOR

A. For the degree of A.B.

*Prerequisites:* Chemistry 1-2, Mathematics 6 s.h.

*Major Requirements:* Chemistry 61, 70, 151-152, and an additional 6 or 7 s.h., which may be satisfied by 261-262 or by 206 together with 2 or 3 s.h. selected from courses 131, 233, and 251. The required work in the Science Division must include one year of Physics.

B. For the degree of B.S.

*Prerequisites:* Chemistry 1-2, Mathematics 6 s.h.

*Major Requirements:* Chemistry 61, 70, 131, 151-152, 234, 251, 261-262. The required work in the Science Division must include Mathematics 51-52 and one year of Physics.

#### ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR HOOVER, CHAIRMAN; PROFESSOR DE VYVER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS BLACK, HUMPHREY, RATCHFORD, SMITH, SPENGLER, AND VON BECKERATH; ASSOCIATE PROFESSORS ALLEN, HANNA, LONDON, LEMERT, MACMILLAN, SHIELDS, AND SIMMONS; ASSISTANT PROFESSORS ASHBROOK, JOERG, MCKENZIE, AND SAVILLE; MESSRS. CLAMP, HAINES, HOLDEN, LEHMANN, ROSS, AND WILLIAMS

#### ECONOMICS

12. **American Economic Institutions.**—3 s.h.  
[Not offered in 1949-50]

PROFESSOR SMITH

51-52. **Principles of Economics.**—6 s.h.

STAFF

This course must be passed by all students planning to elect further courses in Economics and Business Administration.

60. General Accounting.—3 s.h.
103. Transportation.—3 s.h. ASSOCIATE PROFESSOR LONDON
107. Conservation.—3 s.h. ASSOCIATE PROFESSOR LEMERT
132. The Economic History of the United States.—3 s.h. PROFESSOR SMITH
138. Business Statistics.—3 s.h. ASSOCIATE PROFESSOR HANNA
139. Advanced Business Statistics.—Prerequisite: Economics 138 or equivalent. 3 s.h. ASSOCIATE PROFESSOR HANNA
152. Global Geography.—3 s.h. ASSOCIATE PROFESSOR LEMERT
153. Money, Credit and Banking.—3 s.h. ASSOCIATE PROFESSOR SIMMONS; PROFESSOR RATCHFORD; ASSISTANT PROFESSORS ASHBROOK AND SAVILLE
155. Labor Problems.—3 s.h. PROFESSOR DE VYVER
161. European Economic Problems.—3 s.h. PROFESSOR HUMPHREY
169. Economics of Consumption.—3 s.h. PROFESSOR SMITH
186. Latin-American Economics.—3 s.h. PROFESSOR SMITH
187. Public Finance.—3 s.h. PROFESSOR RATCHFORD
189. Business and Government.—3 s.h. PROFESSOR HUMPHREY
199. Economic Analysis.—3 s.h. ASSOCIATE PROFESSOR ALLEN
204. Monetary and Banking Theory.—3 s.h. ASSOCIATE PROFESSOR SIMMONS
215. Economic Systems.—3 s.h. PROFESSOR HOOVER
216. Economic Functions of the State.—Prerequisite: Economics 215 or its equivalent. 3 s.h. PROFESSOR HOOVER
217. Population, Resources, and Standards of Living.—3 s.h. PROFESSOR SPENGLER
218. Business Cycles.—3 s.h. PROFESSOR HUMPHREY
231. Economic History of Europe.—3 s.h. PROFESSOR SMITH
233. State and Local Finance.—Prerequisite: Economics 187 or consent of instructor. 3 s.h. PROFESSOR RATCHFORD
234. Federal Finance.—Prerequisite: Economics 187 or consent of instructor. 3 s.h. PROFESSOR RATCHFORD
236. Taxation and Government Finance.—3 s.h. PROFESSOR RATCHFORD
- 237-238. Statistical Methods.—Prerequisite: Economics 138 or consent of the instructor. 6 s.h. ASSOCIATE PROFESSOR HANNA
- 241-242. Value and Distribution.—6 s.h. PROFESSOR SPENGLER
245. Problems of Modern Industrialism.—3 s.h. PROFESSOR VON BECKERATH
256. Labor Legislation.—Prerequisite: Economics 155, or with the consent of the instructor. 3 s.h. PROFESSOR DE VYVER
260. Social Insurance.—3 s.h. PROFESSOR DE VYVER
265. International Trade and Finance.—3 s.h. ASSOCIATE PROFESSOR ALLEN

268. Competitive versus Monopolistic Enterprise.—3 s.h.

PROFESSOR VON BECKERATH

280. Advanced Economic Problems.—3 s.h.

#### BUSINESS ADMINISTRATION

##### A. ACCOUNTANCY

57-58. Principles of Accounting.—6 s.h.

PROFESSOR BLACK; ASSOCIATE PROFESSOR SHIELDS; AND STAFF

171-172. Advanced Accounting.—6 s.h.

ASSOCIATE PROFESSOR SHIELDS

173-174. Auditing, Theory and Practice.—Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h.

ASSOCIATE PROFESSOR MACMILLAN

175-176. C. P. A. Review.—Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h.

PROFESSOR BLACK

177. Income Tax Accounting.—Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h.

ASSOCIATE PROFESSOR SHIELDS

178. Accounting Systems.—Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h.

ASSOCIATE PROFESSOR SHIELDS

180. Government Accounting.—Prerequisite: Economics 57-58 and permission of the instructor. 3 s.h.

ASSOCIATE PROFESSOR SHIELDS

275-276. Advanced Industrial Accounting and Management.—Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h.

PROFESSOR BLACK

##### B. COMMERCE AND INDUSTRY

11. Economic Geography.—3 s.h.

ASSOCIATE PROFESSOR LEMERT

105. Industrial Management.—3 s.h.

ASSOCIATE PROFESSOR LONDON

109. The Economic Geography of Latin America.—3 s.h.

ASSOCIATE PROFESSOR LEMERT

115. Fundamentals of Geography.—3 s.h.

ASSOCIATE PROFESSOR LEMERT

116. Principles of Economic Geography.—Prerequisite: Economics 115. 3 s.h.

ASSOCIATE PROFESSOR LEMERT

118. Economic Geography of the South.—3 s.h.

ASSOCIATE PROFESSOR LEMERT

120. Economic Geography of the Pacific.—3 s.h.

ASSOCIATE PROFESSOR LEMERT

143. Corporation Finance.—3 s.h.

ASSISTANT PROFESSOR JOERG

Though not a prerequisite, Economics 57-57, Principles of Accounting, or Economics 60, General Accounting, are recommended to students electing this course.

144. Investments.—Prerequisites: Economics 57-58 or 60, and 143. 3 s.h.

ASSISTANT PROFESSOR JOERG

158. Insurance.—3 s.h.

ASSISTANT PROFESSOR SAVILLE

168. Marketing.—3 s.h.

ASSOCIATE PROFESSOR LONDON

181-182. Business Law.—6 s.h.

MR. HAINES

184. Commercial Law for Accountants.—3 s.h.

PROFESSOR BLACK

188. Personnel Management.—Prerequisite: Economics 155. 3 s.h.

PROFESSOR DE VYVER



**DEPARTMENTAL MAJOR**

A major in economics requires the following election of courses:

**A**

**Economics 51-52. Principles of Economics.**  
**Economics 60, or 57-58. Principles of Accounting.**  
**Economics 138. Business Statistics.**  
**Economics 153. Money, Credit and Banking.**  
**Mathematics 5.**

**B**

Eighteen (18) semester hours in junior and senior courses in economics, of which six (6) semester hours are restricted to the following group of courses:

**Economics 199. Economic Analysis.**  
**Economics 204. Monetary and Banking Theory.**  
**Economics 215. Economic Systems.**  
**Economics 217. Population Problems.**  
**Economics 218. Business Cycles.**  
**Economics 231. Economic History of Europe.**  
**Economics 234. Federal Finance.**  
**Economics 245. Modern Industrialism.**  
**Economics 256. Labor Legislation.**  
**Economics 265. International Trade.**

Students majoring in Economics are restricted by the general Faculty Regulation which limits course work in Economics and Business Administration to 54 semester hours with not over 36 semester hours in either of the department's subdivisions "economics" and "business administration."

**EDUCATION**

PROFESSOR BROWNELL, CHAIRMAN; PROFESSOR CARR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CHILDS, NAHM, AND PROCTOR; ASSOCIATE PROFESSORS BOLMEIER, RUDISILL, STUMPF; MR. SLAY; AND ASSISTANTS

1. Orientation Course in Study and Study Habits.—3 s.h. STAFF
6. A Study of Reading Skills. ASSOCIATE PROFESSOR RUDISILL
54. Introductory Course in History of Education.—3 s.h.  
 [Not offered in 1949-50]
68. Mental Hygiene of the School Child.—3 s.h.  
 [Not offered in 1949-50] ASSOCIATE PROFESSOR EASLEY
84. Social Foundations of Education.—3 s.h.  
ASSOCIATE PROFESSOR STUMPF AND MR. SLAY

**Note:** Courses 84, 88, 103, and 118 constitute a sequence of 12 hours in Education required of all prospective teachers. Students who intend to teach in the elementary school should confer with Professor Carr, and students who intend to teach in the secondary school should confer with Professor Childs, in order to work this sequence into their schedules. See courses under Nursing Education for modified sequence of courses for students preparing to teach in schools of nursing.

88. Educational Psychology: Learning and Measurement.—3 s.h.  
 See note following course 84. ASSOCIATE PROFESSOR EASLEY

- 101-102. **Elementary Education: Principles and Practice.—8 s.h.**  
 PROFESSOR CARR AND ASSISTANTS
- A. Integrated Art in the Public School.** MRS. MASON  
 [Not offered unless as many as eight students enroll.]
- B. Industrial Art in the Public School.** MRS. MASON  
 [Not offered in 1949-50]
103. **Organization and Management of the School.—3 s.h.**  
 See note following course 84. ASSOCIATE PROFESSOR BOLMEIER
105. **Introduction to Educational Sociology.—3 s.h.** PROFESSOR CHILDS  
 [Not offered in 1949-50]
- 115-116. **Secondary Education: Principles and Practice.—8 s.h.**  
 PROFESSOR CHILDS AND ASSISTANTS
118. **Educational Psychology: Psychological Development.—Prerequisite:**  
 three semester hours in psychology or educational psychology. 3 s.h.  
 See note following course 84. PROFESSOR BROWNELL
128. **Tests and Measurements in Personnel Work.—3 s.h.**  
 [Not offered in 1949-50]
132. **Materials and Methods in Health Education.—3 s.h.**  
 ASSOCIATE PROFESSOR AYCOCK
136. **The Teaching of High-School English.—3 s.h.**  
 ASSISTANT PROFESSOR JORDAN
142. **Children's Literature.—3 s.h.** PROFESSOR CARR
166. **Materials and Methods in Teaching Romance Languages.—3 s.h.**  
 ASSOCIATE PROFESSOR DAVIS
170. **The Social and Economic Position of Women.—2 s.h.** MRS. SMITH  
 [Not offered in 1949-50]
176. **Materials and Methods in High-School Science.—Prerequisite:** at  
 least eighteen hours of science in college. 3 s.h. PROFESSOR KRAMER
185. **The Teaching of Religion and Ethics.—3 s.h.**  
 ASSOCIATE PROFESSOR CRUM
200. **Introduction to the Philosophy of Education.—3 s.h.**  
 [Not offered in 1949-50]
203. **Principles of School Administration.—Prerequisite:** six semester  
 hours of courses 103 and 88 or their equivalent. 3 s.h.  
 ASSOCIATE PROFESSOR BOLMEIER
205. **Curriculum Problems in Secondary Education.—3 s.h.**  
 PROFESSOR CHILDS
206. **Sociological Foundations of the Secondary School Subjects.—Pre-**  
**requisite:** general sociology or approved work in education, including course  
 105. 3 s.h. PROFESSOR CHILDS  
 [Not offered in 1949-50]
207. **Technique of Teaching.—3 s.h.** PROFESSOR CARR  
 [Not offered in 1949-50]
- 208A. **Mental Tests and Applications.—Prerequisite:** course 258 or six  
 semester hours of other work in educational psychology or psychology. 3 s.h.  
 ASSOCIATE PROFESSOR EASLEY
- 208B. **Mental Tests and Applications.—2 s.h.**  
 ASSOCIATE PROFESSOR EASLEY

209. Statistical Methods Applied to Education.—3 s.h.  
ASSOCIATE PROFESSOR STUMPF
212. Psychology of the Elementary School Subjects.—3 s.h.  
[Not offered in 1949-50] PROFESSOR CARR
213. Problems in the Organization and Administration of the Elementary School.—3 s.h.  
PROFESSOR PROCTOR
214. History of Education in the United States.—3 s.h.  
[Not offered in 1949-50]
215. Educational and Vocational Guidance.—Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h.  
[Not offered in 1949-50] PROFESSOR CHILDS
216. Psychological Principles of Secondary Education.—3 s.h.  
[Not offered in 1949-50] PROFESSOR CHILDS
222. The Curriculum and Materials of the Elementary Grades.—3 s.h.  
PROFESSOR CARR
225. The Teaching of History and the Social Studies.—3 s.h.  
ASSOCIATE PROFESSOR MANCHESTER
227. The Psychology of Learning: Problems.—3 s.h.  
ASSOCIATE PROFESSOR EASLEY
228. The Psychology of Learning: Theoretical and Experimental.—Prerequisite: course 227 or its equivalent. 3 s.h. ASSOCIATE PROFESSOR EASLEY
232. Supervision of Instruction.—3 s.h.  
PROFESSOR CARR
233. Administrative Pupil-Accounting.—3 s.h.  
[Not offered in 1949-50] PROFESSOR PROCTOR
234. Secondary School Organization and Administration.—3 s.h.  
ASSOCIATE PROFESSOR BOLMEIER
237. Investigations in Reading.—3 s.h. ASSOCIATE PROFESSOR RUDISILL
244. Studies in the Historical Development of Public School Administration.—3 s.h.  
[Not offered in 1949-50]
246. The Teaching of Mathematics.—3 s.h.  
[Not offered unless enrollment justifies.] PROFESSOR RANKIN
247. Investigations in Arithmetic.—3 s.h. PROFESSOR BROWNELL
253. Legal Phases of School Administration.—3 s.h.  
[Not offered in 1949-50]
254. History of Secondary Education in the United States.—3 s.h.  
[Not offered in 1949-50] PROFESSOR PROCTOR
258. Educational Measurements.—Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h.  
[Not offered in 1949-50]
264. Recent Movements in American Education.—3 s.h.  
[Not offered in 1949-50]

## NURSING EDUCATION

(Students preparing for administrative, teaching, or supervisory positions in schools of nursing must take, in addition to other courses, substantially the same basic program of work in Education as do prospective secondary school teachers, namely, courses 84, 88, 103, 115-116, and 118. (Course 101 below is substituted for course 103 in this program.) Courses 84N and 115N-116N are sections of courses 84 and 115-116, respectively, designed especially for nurses.)

- 84N. Social Foundations of Nursing Education.—3 s.h. PROFESSOR NAHM
101. The Curriculum in the School of Nursing.—3 s.h. PROFESSOR NAHM
- 115N-116N. Nursing Education: Principles and Practice.—8 s.h.  
PROFESSOR NAHM
117. Nursing Education: Community Nursing Service.—2 s.h.  
PROFESSOR NAHM
120. Nursing Education: Problems in Nursing Care.—3 s.h.  
[Not offered in 1949-50] PROFESSOR NAHM
124. Nursing Education: Teaching of the Nursing Arts.—3 s.h.  
[Not offered in 1949-50] PROFESSOR NAHM
193. Ward Administration and Teaching.—3 s.h. PROFESSOR NAHM
195. Personnel Work in Schools of Nursing—3 s.h. PROFESSOR NAHM

#### DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester hours of courses limited to Seniors or to Seniors and Graduates. Before graduation, majors in the Department must have credit for at least one course in educational psychology, and one course in history and philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, provided at least six semester hours of the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester hours may be of courses numbered below 100.

#### DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in education who have passed with grade of "B" or better in their Freshman or Sophomore years six semester hours of education.

Candidates for Honors in education are required to take in the Junior year twelve semester hours in the Department and to make an average of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of twelve semester hours of supervised reading in education, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in education offered in the 200 group, on which he is required to make a grade of "B" or better and twelve semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the History of Education; the remaining six semester hours shall be devoted to Educational Psychology, or Secondary Education, or Elementary Education, or Public School Administration, as the student may elect and the Departmental Committee approve. In exceptional cases, qualified students may be permitted to take six semester hours of the supervised reading during the Junior year and increase the amount of course work in the Department the Senior year.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.



**ENGINEERING**

See page 138 of this bulletin.

**ENGLISH**

PROFESSOR IRVING, ACTING CHAIRMAN; ASSOCIATE PROFESSOR BEVINGTON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR BOWMAN, SUPERVISOR OF FRESH-MAN INSTRUCTION; PROFESSORS BAUM, BRINKLEY, GILBERT, GOHDES, AND HUBBELL; VISITING PROFESSORS FOERSTER AND ORSINI; ASSOCIATE PROFESSORS BLACKBURN, LEARY, MITCHELL, PATTON, SANDERS, TALBERT, AND WARD; ASSISTANT PROFESSORS BEVINGTON, HARWELL, JORDAN, KLIGER, POTEAT, REARDON, SCHWERMAN, SUGDEN, WETHERBY, AND WHITE; DRs. CHURCH AND ROBBINS; MESSRS. BENNETT, BROUSE, CANINE, FRENCH, GINTHER, GUILDS, KEIRCE, KENNEDY, AND REECE; MRS. BRAVERMAN, MRS. EMMA, MRS. GRATTAN, AND MISS LOWE

**L. English Fundamentals.—3 s.h.**

ASSISTANT PROFESSOR JORDAN; MESSRS. FRENCH AND CANINE

**1-2. English Composition.—6 s.h.**

ASSOCIATE PROFESSORS BEVINGTON, BLACKBURN, BOWMAN, PATTON, SANDERS, AND WARD; ASSISTANT PROFESSORS BEVINGTON, HARWELL, JORDAN, KLIGER, POTEAT, SUGDEN, AND WHITE; DRs. CHURCH AND ROBBINS; MESSRS. BENNETT, BROUSE, CANINE, FRENCH, GINTHER, GUILDS, KEIRCE, KENNEDY, AND REECE; MRS. BRAVERMAN, MRS. EMMA, AND MISS LOWE

**33. Writing Laboratory.**

ASSISTANT PROFESSOR JORDAN

**53. English Composition.—3 s.h.**

ASSISTANT PROFESSOR JORDAN

**58. English Composition.—3 s.h.**

ASSISTANT PROFESSOR JORDAN

**65-66. English Composition.—6 s.h.**

ASSOCIATE PROFESSOR SANDERS

**101-102. Expository English Composition.—6 s.h.**

ASSOCIATE PROFESSOR MITCHELL

**103-104. English Composition.—6 s.h.**

ASSOCIATE PROFESSOR BLACKBURN

**107-108. Journalism.—6 s.h.**

ASSISTANT PROFESSOR SUGDEN

**E113. Advanced Composition for Engineers.—3 s.h.**

ASSISTANT PROFESSOR HARWELL AND MR. KENNEDY

**133. Verse-Writing.—3 s.h.**

[Not offered in 1949-50]

**SPEECH AND DRAMA****105-106. Playwriting.—6 s.h.**

ASSISTANT PROFESSOR REARDON  
[105 only will be offered in 1949-50, in the second semester.]

**118. Persuasive Speaking.—Prerequisite: English 151 or consent of the instructor. 3 s.h.**

ASSISTANT PROFESSOR WETHERBY

**119. History of the Theatre.—3 s.h.**

ASSISTANT PROFESSOR REARDON

**121-122. Play Production.—6 s.h.**

ASSISTANT PROFESSOR REARDON

**139. The Speaking Voice.—3 s.h.**

ASSISTANT PROFESSORS SCHVERMAN AND WETHERBY

**150. Oral Interpretation of Literature.—3 s.h.**

ASSISTANT PROFESSORS SCHVERMAN AND WETHERBY

## 151. Essentials of Public Speaking.—3 s.h.

ASSISTANT PROFESSORS SCHWERMAN AND WETHERBY,  
AND MRS. GRATTAN

## 152. Argumentation.—Prerequisite: English 151 or consent of the instructor. 3 s.h.

ASSISTANT PROFESSOR WETHERBY

## ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

## 55-56. Representative Writers.—6 s.h.

ASSOCIATE PROFESSORS BEVINGTON, BLACKBURN, BOWMAN, PATTON, SANDERS,  
AND WARD; ASSISTANT PROFESSORS BEVINGTON, KLIGER, POTEAT, AND  
SUGDEN; DRs. CHURCH AND ROBBINS; AND MR. FRENCH

## 63-64. Introduction to English Poetry.—6 s.h.

ASSOCIATE PROFESSOR MITCHELL

## 111-112. Eighteenth-Century Literature.—6 s.h.

ASSISTANT PROFESSOR KLIGER

## 115-116. Italian Writers in English Translation.—6 s.h.

[Not offered in 1949-50]

VISITING PROFESSOR ORSINI

## 117. Milton.—3 s.h.

PROFESSOR BRINKLEY

## 123-124. Shakespeare.—6 s.h.

ASSOCIATE PROFESSORS TALBERT, WARD, AND BOWMAN

## 125-126. English Literature, 1789-1832.—6 s.h.

ASSOCIATE PROFESSOR PATTON AND ASSISTANT PROFESSOR WHITE

## 129-130. English Novel.—6 s.h.

ASSOCIATE PROFESSOR MITCHELL

## 131-132. English Literature, 1832-1900.—6 s.h.

ASSOCIATE PROFESSORS BEVINGTON AND SANDERS

## 134. Contemporary Poetry.—3 s.h.

ASSISTANT PROFESSOR BEVINGTON

[Not offered in 1949-50]

## 135-136. Major Works of the Victorian Period.—6 s.h.

[Not offered in 1949-50] ASSOCIATE PROFESSORS SANDERS AND BEVINGTON

## 137-138. American Literature.—6 s.h.

PROFESSORS HUBBELL AND GOHDES, ASSOCIATE  
PROFESSOR LEARY, AND DR. ROBBINS

## 142. Materials and Methods of Teaching High-School English.—3 s.h.

ASSISTANT PROFESSOR JORDAN

## 143-144. English Literature: Elizabethan and Seventeenth Century.—6 s.h.

ASSOCIATE PROFESSOR BLACKBURN

## 153-154. Comparative Literature.—6 s.h.

PROFESSOR IRVING

## 155-156. Contemporary Drama.—6 s.h.

ASSISTANT PROFESSOR WHITE

## 157-158. Contemporary Fiction.—6 s.h.

ASSOCIATE PROFESSOR LEARY

[158 only, offered second semester in 1949-50]

## 161-162. Modern English and Its Backgrounds.

[Not offered in 1949-50]

## 165-166. The Short Story in America.—6 s.h.

PROFESSOR HUBBELL AND ASSOCIATE PROFESSOR LEARY

## 167-168. English Prose, 1790-1830.—6 s.h.

ASSOCIATE PROFESSOR PATTON

[Not offered in 1949-50]

## FOR SENIORS AND GRADUATES

- 201-202. Anglo-Saxon.—6 s.h.  
[Not offered in 1949-50] PROFESSOR BAUM AND ASSOCIATE PROFESSOR TALBERT
- 203-204. Chaucer.—6 s.h. PROFESSOR BAUM
- 205-206. Middle English.—6 s.h. PROFESSOR BAUM
- 215-216. Elizabethan Drama.—6 s.h.  
PROFESSOR GILBERT AND ASSOCIATE PROFESSOR TALBERT
217. Milton.—3 s.h. PROFESSOR GILBERT  
[Offered in second semester]
218. Spenser.—3 s.h. PROFESSOR GILBERT  
[Not offered in 1949-50]
- 219-220. The Eighteenth Century.—6 s.h. PROFESSOR IRVING
- 221-222. English Literature of the Early Nineteenth Century.—6 s.h.  
VISITING PROFESSOR FOERSTER
- 223-224. English Literature of the Later Nineteenth Century.—6 s.h.  
[Not offered in 1949-50] PROFESSOR BAUM
227. Literary Criticism.—3 s.h. PROFESSOR GILBERT
- 229-230. American Literature, 1800-1870.—6 s.h.  
PROFESSOR HUBBELL AND VISITING PROFESSOR FOERSTER
- 233-234. American Literature since 1870.—6 s.h. PROFESSOR GOHDES
235. History of American Drama.—3 s.h. ASSOCIATE PROFESSOR LEARY  
[Not offered in 1949-50]
237. English Drama, 1642-1800.—3 s.h. ASSOCIATE PROFESSOR WARD  
[Not offered in 1949-50]
239. Shakespeare Problems.—Prerequisite: English 123-124 or graduate standing. 3 s.h. ASSOCIATE PROFESSOR TALBERT  
[Not offered in 1949-50]
241. Studies in Dryden.—3 s.h. ASSOCIATE PROFESSOR WARD  
[Not offered in 1949-50]
245. Dante in English.—3 s.h. VISITING PROFESSOR ORSINI  
[Not offered in 1949-50]
245. Literature of the Italian Renaissance.—3 s.h.  
[Not offered in 1949-50] VISITING PROFESSOR ORSINI
- 247-248. American Literature to 1800.—6 s.h. ASSOCIATE PROFESSOR LEARY  
[Not offered in 1949-50]
- 249-250. English Literature in the Sixteenth Century.—6 s.h.  
[Not offered in 1949-50] ASSOCIATE PROFESSOR TALBERT
- 251-252. English Literature in the Seventeenth Century.—6 s.h.  
ASSOCIATE PROFESSOR WARD
- 269-270. Southern Literature.—6 s.h.  
[269 only, offered in second semester] PROFESSOR HUBBELL

## DEPARTMENTAL MAJOR

All majors in English will center their work around one of five period courses. One additional English course will be closely related to this period course and one will not. Related work will be chosen carefully to support wherever possible the body of knowledge acquired in the English courses. Teachers in charge of the period courses will act as an advisory board for

majors and assist them in the choice of English courses, related work, and electives.

*Prerequisites:* English 1 and 2.

*Requirements for the Major:* A major in English consists of twenty-four semester hours of credit distributed as follows: *Six* hours must ordinarily be devoted to either English 55-56 or English 63-64; *six* hours to one of five designated period courses (English 143-144, 111-112, 125-126, 131-132, or 137-138); *six* hours to a course or courses contiguous with or closely related to the period course chosen; and *six* hours to a course or courses not contiguous with or closely related to the period course chosen. At least *six* hours of these must be drawn from courses the material of which is predominantly English literature written earlier than 1800. Courses in Comparative Literature, Composition, Dramatics, and Speech may be counted as related work. So far as possible, students' programs will be made up of complete year courses.

### FORESTRY

Students without a Bachelor's degree who are preparing for work in forestry as a profession should take the courses outlined under the Academic-Forestry Combination. However, with the consent of the instructor in charge, certain forestry courses may be elected by students in other curricula provided they have had adequate preparation (see *Bulletin of the School of Forestry*).

Members of the Sophomore, Junior, and Senior classes, whether or not registered in the Academic-Forestry Combination, may elect the following course:

52. Principles of Forestry.—2 s.h.  
[Not offered in 1949-50]

PROFESSOR THOMSON

### GEOLOGY

ASSOCIATE PROFESSOR BERRY; MR. DORT

51. General Geology.—4 s.h.

ASSOCIATE PROFESSOR BERRY

52. General Geology.—Prerequisite: Geology 51. 4 s.h.

ASSOCIATE PROFESSOR BERRY

53. Physiography.—4 s.h.

MR. DORT

64. Map Reading and Construction.—3 s.h.

ASSOCIATE PROFESSOR LEMERT

101-102. Mineralogy.—Prerequisite: Chemistry 1-2 (can be taken concurrently). 8 s.h.

ASSOCIATE PROFESSOR BERRY

151. Economic Geology.—Prerequisite: Geology 101-102. 4 s.h.

MR. DORT

152. Introductory Paleontology.—Prerequisites: Geology 51, 52, and Zoology 1. 4 s.h.

ASSOCIATE PROFESSOR BERRY

### DEPARTMENTAL MAJOR

*Prerequisites:* None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.

*Major Requirements:* Geology 51, 52, 101-102, 151, 152.

### GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN; ASSISTANT PROFESSOR MAXWELL, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR KRUMMEL; ASSOCIATE PROFESSOR SHEARS; MR. GRASTY; MISS RUST

1-2. Elementary German.—6 s.h.

ASSISTANT PROFESSOR MAXWELL AND STAFF



**3-4. Intermediate German.—6 s.h.**

ASSOCIATE PROFESSOR WILSON AND STAFF

**51-52. Introduction to German Literature.—6 s.h.**

PROFESSOR VOLLMER AND STAFF

**107-108. Scientific German.—6 s.h.**

ASSOCIATE PROFESSOR WILSON; AND ASSISTANT PROFESSOR MAXWELL

**109-110. German Prose Fiction.—6 s.h.**

ASSOCIATE PROFESSOR WILSON

**111-112. Introduction to the Classic Drama.—6 s.h.**

ASSOCIATE PROFESSOR WILSON

**115-116. German Drama of the Nineteenth Century.—6 s.h.**

ASSOCIATE PROFESSOR WILSON

**117-118. German Conversations.—6 s.h.**

PROFESSOR VOLLMER AND ASSISTANT PROFESSOR MAXWELL

**119-120. German Literature in English Translation.—6 s.h.**

PROFESSOR VOLLMER

**121-122. Schiller.—6 s.h.**

ASSISTANT PROFESSOR MAXWELL

**123-124. Modern German Short Story.—6 s.h.**

ASSOCIATE PROFESSOR SHEARS

**125-126. Contemporary German Literature.—6 s.h.**

ASSOCIATE PROFESSOR SHEARS

**131-132. Introduction to Goethe.—6 s.h.**

ASSISTANT PROFESSOR MAXWELL

**201-202. Goethe.—6 s.h.****203-204. Eighteenth Century.—6 s.h.**

PROFESSOR VOLLMER

**205-206. Middle High German.—6 s.h.**

PROFESSOR VOLLMER

**207-208. German Romanticism.—6 s.h.**

PROFESSOR VOLLMER

**209-210. Kleist, Grillparzer, and Hebbel.—6 s.h.****211-212. Heinrich Heine and Young Germany.—6 s.h. PROFESSOR VOLLMER****213-214. Literature of the Empire, 1871-1914.—6 s.h.**

ASSOCIATE PROFESSOR SHEARS

**DEPARTMENTAL MAJOR****1. Prerequisites:** German 1-2 and 3-4.

**2. Major Requirements:** Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104, and 119-120.

**HONORS IN GERMAN****Prerequisites:**

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.

2. A student who has completed at least twelve semester hours of college German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German.

**General Rules:**

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. *Work in the German Department:* The amount of work taken in the German Department shall be the equivalent of thirty-six semester hours. Of this the work done in the Honors tutorials shall count twelve hours, six hours for the Junior year and six hours for the Senior year. The comprehensive examinations at the end of the Senior year are counted as part of this twelve semester hours credit.

III. *Related Work:* The related work, which constitutes at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the Departmental Committee gives special permission for the student to take his related work in one department.

IV. *General Honors Examinations:* In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser, on his Honors Reading. A general oral examination, conducted by the Departmental Committee and presupposing a general knowledge of the development of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

### GOVERNMENT

See courses listed under Political Science.

### GREEK

ASSISTANT PROFESSOR TRUESDALE, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION;  
ASSISTANT PROFESSOR WAY

1-2. Course for Beginners.—6 s.h. ASSISTANT PROFESSOR TRUESDALE

53-54. Xenophon.—6 s.h. ASSISTANT PROFESSOR ROSE

105-106. Homer.—6 s.h. ASSISTANT PROFESSOR TRUESDALE

107-108. Euripides.—*Medea*. Sophocles.—*Oedipus Tyrannus*. Aristophanes.—*Clouds*.—6 s.h. STAFF

15. Mythology.—3 s.h. ASSISTANT PROFESSORS ROSE AND TRUESDALE

115-116. Sight Reading in Greek.—4 s.h. ASSISTANT PROFESSOR TRUESDALE

117-118. Greek Prose Composition.—3 s.h. ASSISTANT PROFESSOR ROSE

121-122. Greek Literature in English Translation.—6 s.h.  
ASSISTANT PROFESSORS ROSE AND TRUESDALE

141-142. Greek Art.—6 s.h. ASSISTANT PROFESSOR WAY

131. History of Greece.—3 s.h. ASSISTANT PROFESSOR WAY

203-204. Homer.—*Odyssey*. Pindar and Bacchylides. 6 s.h.  
ASSISTANT PROFESSOR TRUESDALE

207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY

209-210. Plato.—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h.  
ASSISTANT PROFESSOR WAY

Only one of the three year-courses for Seniors and Graduates (203-210), listed above, is offered each year.

243. Athenian Topography.—3 s.h. ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—3 s.h. ASSISTANT PROFESSOR WAY

245. Greek Dialects.—3 s.h. ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—3 s.h.

ASSISTANT PROFESSOR WAY

247-248. Greek Archaeology.—6 s.h.

ASSISTANT PROFESSOR WAY

*Of the courses numbered from 243 to 248 only two semester-courses are offered each year.*

#### DEPARTMENTAL MAJOR

*Prerequisites:* Greek 1-2.

*Major Requirements:* A candidate for a major in Greek must complete twenty-four semester hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

(a) Greek 105-106, 131, 141-142, 107-108, 122, and 117-118.

(b) Four year-courses in related departments.

(c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of nine semester hours is given.

Students who enter the University with advanced standing in Greek take higher courses in the language than those listed above.

At the end of the Senior year candidates for Honors must pass a comprehensive examination in writing on the subject-matter covered by their studies in Greek.

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*Graduates of Duke University may attend the American School of Classical Studies at Athens, Greece, without charge for tuition, and are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

#### HEALTH AND PHYSICAL EDUCATION

##### TRINITY COLLEGE AND COLLEGE OF ENGINEERING

MR. CAMERON, DIRECTOR; MESSRS. AYCOCK, BAILEY, BLY, CALDWELL, CHAMBERS, COOMES, COX, FALCONE, GERARD, HAGLER, HARRISON, HENDRIX, HENNEMIER, HILL, LEWIS, MONTFORT, PARKER, PERSONS, WADE

##### SPECIAL METHODS IN PHYSICAL EDUCATION

163. Athletic Coaching in Secondary Schools.—Prerequisites: courses 1 and 2. 3 s.h. Mr. COOMES AND Mr. CHAMBERS

164. Athletic Coaching in Secondary Schools.—Prerequisites: courses 1 and 2. 3 s.h. Mr. WADE AND STAFF

##### THEORY AND PRACTICE IN PHYSICAL EDUCATION

65. History and Principles of Physical Education.—3 s.h.

Mr. AYCOCK, Mr. GERARD

172. Recreational Leadership.—3 s.h.

Mr. GERARD

173. Individual Gymnastics.—3 s.h.

Mr. AYCOCK

182. The Administration of Health and Physical Education in Secondary Schools.—3 s.h. MR. AYCOCK, MR. GERARD

187. School Programs of Physical Education.—3 s.h. MR. GERARD

190. Protective Practices in Physical Education.—3 s.h. MR. CHAMBERS

#### WOMAN'S COLLEGE

PROFESSOR GROUT, CHAIRMAN; ASSOCIATE PROFESSORS BOOKHOUT AND LEWIS;

MISS HOLTON, MISS MCCOLL, MISS PAYNE, MRS. SWASEY,

MISS UHRHANE, AND MISS WEBSTER

#### PHYSICAL EDUCATION ACTIVITIES

*Dancing:* Folk dancing, modern dance, social dancing, square dancing, tap dancing.

*Individual and dual sports:* Archery, badminton, bowling, diving, fencing, golf, life saving, light sports, riding, stunts and tumbling, swimming, tennis.

*Team sports:* Basketball, hockey, softball, volleyball.

*Special developmental activities:* Body mechanics, individual physical education, fundamental rhythms, motor skills, posture.

#### PHYSICAL EDUCATION THEORY

Students in the High School Teaching Program may receive academic credit for all courses listed below.

Students in the Elementary School Teaching Program may receive academic credit for Physical Education 102, Health Education 41 and 112.

Students in all groups may receive credit for Physical Education 105-106, 108, 114, and Health Education 41, 112, and 62.

101. History and Principles of Physical Education.—2 s.h.

PROFESSOR GROUT

102. The Teaching of Physical Education in Elementary Schools.—3 s.h.

MISS WEBSTER

103. Group Games of Low Organization.—2 s.h.

MISS WEBSTER

[Offered every other year alternating with P.E. 107.]

105-106. Methods and Materials in Recreation.—6 s.h.

MRS. SWASEY

107. The Teaching of Rhythmic Activities.—2 s.h.

ASSOCIATE PROFESSOR LEWIS

[Offered every other year alternating with P.E. 103.]

108. Problems in Community Recreation.—3 s.h.

MRS. SWASEY

114. Kinesiology.—Prerequisite: Zoology 1 and 2, and Zoology 53. 3 s.h.

ASSOCIATE PROFESSOR BOOKHOUT

[Not open to students who have had 116.]

116. Kinesiology.—Designed primarily for students of Physical Therapy. Prerequisite: Human Anatomy. 3 s.h.

ASSOCIATE PROFESSOR BOOKHOUT

[Not open to students who have had 114.]

118. Orthopedic and Remedial Physical Education.—2 s.h.

ASSOCIATE PROFESSOR BOOKHOUT

119. Organization and Administration of Physical Education.—2 s.h.

PROFESSOR GROUT

181-182. Methods and Materials in Physical Education.—4 s.h.

ASSOCIATE PROFESSOR LEWIS AND STAFF

185-186. Advanced Methods and Materials in Physical Education.—4 s.h.

ASSOCIATE PROFESSOR LEWIS AND STAFF



**HEALTH EDUCATION**

41. Personal Health Problems.—3 s.h. MISS UHRHANE  
 62. Community Health Problems.—Prerequisite: H.E. 41. 3 s.h. MISS UHRHANE  
 112. School Health Problems.—3 s.h. MISS UHRHANE

**REQUIREMENTS FOR TEACHING HEALTH AND PHYSICAL EDUCATION IN PUBLIC SCHOOLS**

The following requirements have been set up for students in the Teaching Program who wish to qualify as full-time or part-time teachers of Health and Physical Education. These requirements meet the standards of the North Carolina Department of Public Instruction for certification in Health and Physical Education and of most of the other states represented in the student body. Students preparing to teach in any state are advised to check with the department as to specific requirements.

*Prerequisites:* Zoology 1-2, Health Education 41.

Thirty semester hours, including Physical Education 101, 103, 107, 114, 118, 119, 181-182, 185-186, Health Education 112 and Zoology 53, 142.

*Education Requirements:* Consult Department of Education.

Students preparing to teach physical education and health on a part-time basis only are advised to take at least the following program:

*Prerequisite:* Health Education 41.

A minimum of fifteen semester hours, including Physical Education 101, 103, 107, 119, 181-182, Health Education 112.

*Education Requirements:* Consult Department of Education.

**HISTORY**

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR HAMILTON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR FERGUSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CARROLL, CLYDE, LANNING, ROBERT, AND SYDNOR; ASSOCIATE PROFESSORS CURTISS, MANCHESTER, NELSON, ROPP, AND WOODY; ASSISTANT PROFESSORS ACOMB, PARKER, STEVENS, AND WATSON; DR. HOLLEY; MESSRS. COLTON AND GIVAN

- 1-2. Historical Background of the World Today.—6 s.h.

ASSOCIATE PROFESSOR HAMILTON; ASSISTANT PROFESSORS ACOMB, FERGUSON, AND STEVENS; MESSRS. COLTON AND GIVAN

- E. 1-2. The United States in the World Today.—6 s.h. DR. HOLLEY

- 51-52. Historical Background of the World Today.—6 s.h.

ASSOCIATE PROFESSORS CURTISS AND ROPP; ASSISTANT PROFESSOR PARKER; MR. GIVAN

[Not open to Freshmen or to students who have had course 1-2.]

63. Naval History and Elementary Strategy.—3 s.h.

ASSOCIATE PROFESSOR ROPP

- 67-68. The Background of Modern European Civilization.—6 s.h.

ASSOCIATE PROFESSOR NELSON

91. The Development of American Democracy to 1865.—3 s.h.

ASSISTANT PROFESSORS WATSON AND STEVENS

92. The Development of American Democracy, 1865 to the Present.—3 s.h.

ASSISTANT PROFESSORS WATSON AND STEVENS

- 105-106. English Constitutional History.—6 s.h.  
ASSOCIATE PROFESSOR HAMILTON
- 107-108. Social and Cultural History of England.—6 s.h.  
ASSISTANT PROFESSOR FERGUSON
- 113-114. America in the Twentieth Century.—6 s.h.  
ASSISTANT PROFESSOR WATSON
- 115-116. The Age of Absolute Monarchy and the French Revolution.—  
6 s.h. ASSISTANT PROFESSOR ACOMB
- 123-124. English History.—6 s.h. PROFESSOR LAPRADE
- 125-126. Europe in the Nineteenth Century.—6 s.h.  
[Not offered in 1949-50] ASSISTANT PROFESSOR PARKER
127. History of Latin America Through the Formation of the National  
Governments.—3 s.h. PROFESSOR LANNING
128. Inter-American Affairs.—3 s.h. PROFESSOR LANNING
- 129-130. European Expansion Overseas.—6 s.h.  
[Not offered in 1949-50] ASSOCIATE PROFESSOR MANCHESTER
- Ancient History.—Greek 131—Latin 131-132.
- 135-136. Europe in the Twentieth Century.—6 s.h.  
PROFESSOR CARROLL AND ASSOCIATE PROFESSOR HAMILTON
- 141-142. The Far East from Commodore Perry to Chiang Kai-shek.—  
6 s.h. PROFESSOR CLYDE
- 153-154. The History of the South.—6 s.h. PROFESSOR SYDNOR
- 161-162. Russia from Ivan the Terrible to Stalin.—6 s.h.  
ASSOCIATE PROFESSOR CURTISS
- FOR SENIORS AND GRADUATES
- 203-204. The United States, 1850-1900.—6 s.h.  
[Not offered in 1949-50] ASSOCIATE PROFESSOR WOODY
- 207-208. Social and Cultural History of the United States.—6 s.h.  
PROFESSOR ROBERT
- 209-210. American Constitutional History.—Prerequisites: courses 91 and  
92. 6 s.h.  
[Not offered in 1949-50]
211. The Teaching of History and the Social Studies (Education 225).—  
3 s.h. ASSOCIATE PROFESSOR MANCHESTER
- 215-216. The Foreign Policy and Diplomacy of the United States.—6 s.h.  
PROFESSOR CLYDE
- 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
- 219-220. The History of the European Proletariat.—6 s.h.  
[Not offered in 1949-50] PROFESSOR CARROLL
- 221-222. The Age of Renaissance.—6 s.h. ASSOCIATE PROFESSOR NELSON
- 225-226. The Age of the Reformation.—6 s.h.  
[Not offered in 1949-50] ASSOCIATE PROFESSOR NELSON
- 227-228. The Napoleonic Empire and Its Aftermath.—6 s.h.  
[Not offered in 1949-50] ASSISTANT PROFESSOR PARKER
230. The Portuguese Empire and the Rise of Brazil.—3 s.h.  
ASSOCIATE PROFESSOR MANCHESTER

231. The Hispanic Colonies of the New World.—3 s.h.  
PROFESSOR LANNING
232. The Hispanic American Republics.—3 s.h.  
PROFESSOR LANNING
233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h.  
PROFESSOR LANNING  
[Not offered in 1949-50]
234. Political and Social Problems in the Hispanic American Republics.—3 s.h.  
PROFESSOR LANNING  
[Not offered in 1949-50]
235. War in the Modern World.—3 s.h.  
ASSOCIATE PROFESSOR ROPP
- 241-242. Nationalism and Revolutionary Movements in the Far East since 1900.—6 s.h.  
PROFESSOR CLYDE  
[Not offered in 1949-50]
- 261-262. Russia in the Twentieth Century.—6 s.h.  
ASSOCIATE PROFESSOR CURTISS
- 263-264. American Colonial History and the Revolution, 1606-1783.—6 s.h.  
ASSOCIATE PROFESSOR WOODY

#### DEPARTMENTAL MAJOR

*Prerequisites:* The Introductory Course in History (1-2 or 51-52).

*Major Requirements:* Students in the General Group desiring to take a major in history are required to elect twenty-four semester hours in the Department, including six semester hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

#### DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better in their Freshman and Sophomore years courses 91 and 92 in addition to the introductory course in European history.

Candidates for Honors in history are required to take in the Junior year two courses in history offered in the 100 group and to make an average grade of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of fifteen semester hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in history offered in the 200 group, on which he is required to make a grade of "B" or better, and nine semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, the better-known chronicles, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of nine semester hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

## LATIN AND ROMAN STUDIES

PROFESSOR ROGERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;  
ASSISTANT PROFESSOR ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION

- 1-2. Course for Beginners.—6 s.h. THE STAFF
3. Cicero's Orations.—Prerequisite: two entrance units of Latin. 3 s.h.  
THE STAFF
4. Vergil's Aeneid.—Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course, unless Latin 3 was taken. 3 s.h.  
THE STAFF
53. Sallust and Tacitus.—Prerequisite: Latin 51-52 or an equivalent. 3 s.h.  
ASSISTANT PROFESSOR ROSE
51. Latin Prose.—3 s.h. THE STAFF
52. Latin Poetry.—3 s.h. THE STAFF
54. Catullus. ASSISTANT PROFESSOR ROSE
57. Sight Reading in Classical Latin.—1 s.h. ASSISTANT PROFESSOR ROSE
58. Sight Reading in Medieval Latin.—Prerequisite: at least one of the following courses: Latin 3, 4, 51, 52, and 57, or an equivalent. No outside preparation is required. 1 s.h. ASSISTANT PROFESSOR ROSE
- 65-66. Latin Prose Composition.—2 s.h. ASSISTANT PROFESSOR ROSE
101. Tacitus and Suetonius.—3 s.h. PROFESSOR ROGERS
102. Juvenal and Persius.—3 s.h. PROFESSOR ROGERS
103. The Roman Elegiac Poets.
104. Horace: Satires and Epistles.
105. Martial's Epigrams.
106. Letters of Pliny the Younger.
107. Livy: Ab Urbe Condita.
108. Cicero's Letters.
109. Materials and Methods.—Prerequisite: eighteen approved semester hours of college Latin, including courses 51-52, 53-54, or equivalent courses. Required of students who plan to teach Latin in state high schools. 3 s.h.  
ASSISTANT PROFESSOR ROSE
- 111-112. Roman Literature in English Translation.—6 s.h.  
ASSISTANT PROFESSOR ROSE
- 113-114. Roman Civilization.
- 115-116. Art and Architecture of Ancient Rome.
- 131-132. History of Rome.—6 s.h. PROFESSOR ROGERS
- 203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—6 s.h.
- 205-206. Roman Drama.—6 s.h.
- 207-208. Roman Philosophy.
- 209-210. Vulgar Latin: Introduction to Romance Philology.
- 211-212. Roman Oratory.—6 s.h. PROFESSOR ROGERS
215. Roman Art and Archaeology.
216. Topography and Monuments of Ancient Rome.



## DEPARTMENTAL MAJOR

*Prerequisites:* Latin 1-2, 3-4, or acceptable equivalents.

*Major Requirements:* Latin 51-52, 53-54, 65-66, six semester hours in courses numbered 101-108, and in the Senior year six semester hours in courses of the 200-group.

Majors are recommended to elect course 131-132, History of Rome.

Majors who contemplate graduate work are reminded of the necessity of Greek, German, and French for such study.

## LAW COURSES FOR ACADEMIC STUDENTS

The first-year program of the Law School will include the following courses:

	Fall Semester, 1949	Spring Semester, 1950
<i>Subject</i>	<i>S.H.</i>	<i>S.H.</i>
Chattel Transactions .....	2	2
Contracts .....	4	2
*Estates in Land (including some Future Interests and Landlord and Tenant) .....	1	3
Research and Writing .....	1	1
*Torts (including some Procedure) .....	3	2
Legislation .....	3	
Business Associations I (Agency, Partnership, Introduction to Corporations) .....		2
Criminal Law .....		2
	<hr/> 14	<hr/> 14

## MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR DRESSSEL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CARLITZ, RANKIN, ROBERTS, AND THOMAS;  
ASSISTANT PROFESSORS HICKSON AND PATTERSON;  
AND ASSISTANTS

1. **Intermediate Algebra.**—Prerequisite: one unit in algebra and one unit in geometry. 3 s.h. STAFF

5. **College Algebra.**—Prerequisite: Mathematics 1, or one and one-half units in algebra and one unit in geometry. 3 s.h. STAFF

6. **Plane Trigonometry.**—Prerequisite: Mathematics 1, or one and one-half units in algebra and one unit in geometry. 3 s.h. STAFF

15. **Spherical Geometry and Trigonometry.**—Prerequisite: Mathematics 5 and 6. 3 s.h. STAFF

16. **Mathematics of Investment.**—Prerequisite: Mathematics 5. 3 s.h. STAFF

50. **Plane Analytic Geometry.**—Prerequisite: Mathematics 5 and 6. 3 s.h. STAFF

51. **Calculus I.**—Prerequisite: Must be preceded or accompanied by Mathematics 50. 3 s.h. STAFF

52. **Calculus II.**—Prerequisite: Mathematics 51. 3 s.h. STAFF

53. **Calculus III.**—Prerequisite: Mathematics 52. 3 s.h. STAFF

\*Torts to be 4 hours first half of first semester, 2 hours second half; Estates in Land to start in middle of first semester as 2 hour course.

63. **Nomography.**—Prerequisite: Mathematics 50. 3 s.h.  
PROFESSOR THOMAS
124. **Statistics.**—Prerequisite: Mathematics 53. 3 s.h.  
ASSISTANT PROFESSOR HICKSON
125. **Elementary Theory of Equation.**—Prerequisite: Mathematics 53.  
3 s.h. STAFF
131. **Elementary Differential Equations.**—Prerequisite: Mathematics 52.  
3 s.h. STAFF
- 139-140. **Advanced Calculus.**—Prerequisite: Mathematics 53. 6 s.h.  
PROFESSOR ELLIOTT
158. **Finite Differences.**—Prerequisite: Mathematics 53. 3 s.h.  
PROFESSOR CARLITZ
160. **Elementary Solid Analytic Geometry.**—Prerequisite: Mathematics 53.  
3 s.h. STAFF

## FOR SENIORS AND GRADUATES

201. **History of Mathematics.**—Prerequisite: Mathematics 51. 3 s.h.  
PROFESSOR RANKIN
204. **Teaching of Mathematics.**—Prerequisite: Must be preceded or accom-  
panied by Mathematics 52. 3 s.h. PROFESSOR RANKIN
226. **Galois Theory of Equations.**—Prerequisite: Mathematics 53. 3 s.h.  
PROFESSOR THOMAS
- 227-228. **Theory of Numbers.**—Prerequisite: Mathematics 53. 6 s.h.  
PROFESSOR CARLITZ
- 229-230. **Algebraic Numbers.**—Prerequisite: Mathematics 53. 6 s.h.  
PROFESSOR CARLITZ
- 235-236. **Abstract Algebra.**—Prerequisite: Mathematics 53. 6 s.h.  
PROFESSOR CARLITZ
250. **Higher Geometry.**—3 s.h. PROFESSOR THOMAS
- 255-256. **Projective Geometry.**—Prerequisite: Mathematics 53. 6 s.h.  
PROFESSOR THOMAS
- 271-272. **Introductory Topology.**—Prerequisite: Mathematics 53. 6 s.h.  
PROFESSOR ROBERTS
275. **Probability.**—Prerequisite: Mathematics 53. 3 s.h.  
ASSOCIATE PROFESSOR DRESSSEL
- 285-286. **Mathematical Analysis for Physicists.**—Prerequisite: Mathematics  
53. 6 s.h. ASSOCIATE PROFESSOR DRESSSEL
- 291-292. **Theory of Functions.**—Prerequisite: Mathematics 53. 6 s.h.  
PROFESSOR THOMAS

## DEPARTMENTAL MAJOR

For the A.B. degree:

*Prerequisite:* Mathematics 5 and 6.

*Major and Related Work:* 42 s.h.

*Major Requirement:* Mathematics 50, 51, 52, 53, and 12 s.h. in courses in Mathematics numbered above 100, exclusive of Mathematics 201, 204.

*Related Work:* 18-24 s.h. of course work, ordinarily in the following departments: Chemistry, Economics and Business Administration, Philosophy, Physics. This work must be approved by the Department of Mathematics through the Director of Undergraduate Studies of the Department. It may include at

most one 6 or 8 s.h. introductory course. The work must be taken in at least two departments.

For the B.S. degree:

*Prerequisite:* Mathematics 5 and 6.

*Major and Related Work:* 48 s.h.

*Major Requirement:* Mathematics 50, 51, 52, 53, and 12 s.h. in courses in Mathematics numbered above 100, exclusive of Mathematics 201, 204.

*Related Work:* 14-24 s.h. of course work in the natural sciences. This work must be approved by the Department of Mathematics through the Director of Undergraduate Studies of the Department. It may include at most one course primarily open to Freshmen. A minimum of 8 s.h. must be in laboratory science. The work must be taken in at least two departments.

### NAVAL SCIENCE

PROFESSOR EARLE, CAPTAIN, U. S. NAVY; ASSOCIATE PROFESSOR VANARSALL, COMMANDER, U. S. NAVY; ASSISTANT PROFESSOR KANTNER, MAJOR, U. S. MARINE CORPS; ASSISTANT PROFESSOR COX, LIEUTENANT, U. S. NAVY; ASSISTANT PROFESSOR SMITH, LIEUTENANT, U. S. NAVY; ASSISTANT PROFESSOR ECKHOFF, LIEUTENANT, U. S. NAVAL RESERVE; AND ASSISTANTS

*The Mission* of the Naval Reserve Officers' Training Corps is to provide by a permanent system of training and instruction in essential naval subjects at civil educational institutions a source from which qualified officers may be obtained for the Navy and the Marine Corps, and the Naval Reserve and the Marine Corps Reserve.

*The General Objectives* of the Department of Naval Science in carrying out this mission are:

1. To provide the student with a well-rounded course in basic naval subjects, which, in conjunction with a baccalaureate degree, will qualify him for a commission in the United States Naval Service.
2. To provide certain selected students with such specific training, differentiated in the last part of the course, as required for a commission in the United States Marine Corps.
3. To develop a knowledge of, and an interest in, Naval Customs and Traditions.
4. By precept and example, to develop a capacity for leadership.
5. To supplement the academic work of the school year by two summer cruises, and one summer of aviation and amphibious training.

The Department of Naval Science is an integral part of the University and the courses in Naval Science are on the same level and carry the same credit toward graduation as other courses in the University. The required course in Naval Science consists of 24 semester hours. Satisfactory completion of each semester's work is necessary for continuation in the Unit.

*Additional training.* Regular NROTC students must participate in three periods of summer training duty at Naval Stations or on board ship. Marine officer candidates spend the third summer in indoctrination training at the Marine Corps Schools, Quantico, Virginia. Contract students are required to have one tour of active duty in training afloat or ashore, normally taken between the Junior and Senior years, of three weeks' duration.

#### *Additional course requirements:*

1. By the end of Sophomore year, every student must have completed satisfactorily one year of college physics.
2. By the end of Sophomore year, every student must have completed satisfactorily mathematics courses through trigonometry.
3. Every student must achieve proficiency in written and oral expression.

4. Physical training will be taken in accordance with college requirements.
5. Each student shall take such instruction in swimming as to qualify him as a First Class Swimmer. Skill in elementary life-saving is required.

*Courses of study and recommended electives.* Any course of study leading to a baccalaureate degree is considered acceptable for an NROTC student to pursue. It is recommended, however, that the major selected be one that lends itself to helping the student become better prepared for the Navy. Examples of such majors are: The fields in engineering, natural science, social science, English, commerce and administration, and foreign languages. It has been found impractical for most students to combine pre-medical or pre-dental training with NROTC at this institution. Recommended electives are:

1. A sequence in mathematics extending through calculus, and including spherical trigonometry.
2. A second year of physical science, such as Advanced Electricity and Elementary Electronics for other than engineering students.
3. A one-year course in Personnel Management and Administration.
4. A one-year course in the Foundations of National Power, or a comparable course approved by the academic authorities.
5. Two years of a foreign language (modern Romance, German, Slavic, or Oriental).

#### *NROTC Courses*

Standardized titles and designators for courses are established by the Bureau of Naval Personnel. The first digit indicates the year of the course; the second digit (zero for all courses offered here) indicates whether on semester or quarter basis; the third digit indicates the semester or quarter in which offered. Specialized courses for Marine officer candidates are indicated by letter "M" after the designator, and substitute for the basic course of same number.

NS-101. Naval Orientation (Seamanship, Communications).—3 s.h.	STAFF
NS-102. Naval Orientation (A History of Sea Power since 1775).—3 s.h.	STAFF
NS-201. Naval Ordnance and Fire Control.—3 s.h.	STAFF
NS-202. Fire Control and Applied Electronics.—3 s.h.	STAFF
NS-301. Piloting and Navigation.—3 s.h.	STAFF
NS-302. Navigation and Tactics.—3 s.h.	STAFF
NS-302M. The Fundamental Concepts of Military Policy, Power, and Principles.—3 s.h.	STAFF
NS-401. Naval Machinery.—3 s.h.	STAFF
NS-401M. An Analysis of American Battles.—3 s.h.	STAFF
NS-402. Ship Construction and Stability.—3 s.h.	STAFF
NS-402M. Amphibious Operations.—3 s.h.	STAFF

### PHILOSOPHY

ASSOCIATE PROFESSOR LEONARD, EXECUTIVE OFFICER; ASSOCIATE PROFESSOR  
MCLARTY, DIRECTOR OF UNDERGRADUATE STUDIES AND SUPERVISOR OF  
FRESHMAN INSTRUCTION; PROFESSORS GILBERT, NEGLEY,  
PATTERSON, WIDGERY; AND ASSISTANT PROFESSOR  
WELSH

48. Introduction to Logic.—3 s.h.

ASSOCIATE PROFESSOR LEONARD AND ASSISTANT PROFESSOR WELSH



## 49. Introduction to Ethics.—3 s.h.

First semester: ASSOCIATE PROFESSOR McLARTY AND  
ASSISTANT PROFESSOR WELSH

Second semester: PROFESSOR GILBERT AND ASSISTANT PROFESSOR WELSH

## 91. Introduction to Philosophy.—3 s.h.

First semester: PROFESSORS GILBERT AND WIDGERY;  
ASSISTANT PROFESSOR WELCH

Second semester: PROFESSOR PATTERSON AND  
ASSISTANT PROFESSOR WELCH

93. Introduction to the History of Philosophy: Ancient and Mediaeval.—  
3 s.h. PROFESSOR PATTERSON

## 94. Introduction to the History of Philosophy: Modern.—3 s.h.

PROFESSOR WIDGERY AND ASSOCIATE PROFESSOR McLARTY

## 97. Introduction to Political and Social Philosophy.—3 s.h.

PROFESSOR NEGLEY

## 98. Social Ideals and Utopias.—3 s.h.

PROFESSOR NEGLEY

99. Fundamentals of Christian Morality: An Introduction to Christian  
Ethics.—3 s.h. ASSOCIATE PROFESSOR McLARTY

## 103. Logic.—Prerequisite: Philosophy 48. 3 s.h.

ASSOCIATE PROFESSOR LEONARD

## 104. Scientific Methodology.—3 s.h.

ASSOCIATE PROFESSOR LEONARD

## 108. Philosophical Ideas in Ancient Greek and Roman Culture.—3 s.h.

ASSOCIATE PROFESSOR McLARTY

114. Seventeenth-Century Philosophy, with Special Reference to Spinoza.—  
3 s.h. PROFESSOR GILBERT

## 116. The Development of Philosophy in America.—3 s.h.

PROFESSOR NEGLEY

## 117. The History of Ethics.—3 s.h.

PROFESSOR NEGLEY

## 121. The Philosophy of Plato.—3 s.h.

ASSOCIATE PROFESSOR McLARTY

## FOR SENIORS AND GRADUATES

## 201-202. The Philosophy of Art.—6 s.h.

PROFESSOR GILBERT

## 203. Contemporary Ethical Theories.—3 s.h.

PROFESSOR NEGLEY

## 205. The Philosophy of History.—3 s.h.

PROFESSOR WIDGERY

## 208. Political Philosophy.—3 s.h.

PROFESSOR NEGLEY

## 209-210. The Philosophy of Religion.—6 s.h.

PROFESSOR WIDGERY

## 211. History of Ancient Philosophy.—3 s.h.

PROFESSOR PATTERSON

## 212. History of Modern Philosophy.—3 s.h.

PROFESSOR PATTERSON

## 213-214. History of Aesthetics.—6 s.h.

PROFESSOR GILBERT

## 217. The Philosophy of Aristotle.—Prerequisite: course 93 or 211.

ASSOCIATE PROFESSOR McLARTY

## 218. Mediaeval Philosophy.—3 s.h.

PROFESSOR PATTERSON

## 223. Contemporary Philosophy.—3 s.h.

PROFESSOR PATTERSON

## 231. Philosophy of Science I.—3 s.h.

ASSOCIATE PROFESSOR LEONARD

232. Philosophy of Science.—Prerequisite: 3 s.h. of Logic (48 or 241) or  
the permission of the instructor. 3 s.h. ASSOCIATE PROFESSOR LEONARD

- |                                     |                             |
|-------------------------------------|-----------------------------|
| 236. Oriental Philosophy I.—3 s.h.  | PROFESSOR WIDGERY           |
| 238. Oriental Philosophy II.—3 s.h. | PROFESSOR WIDGERY           |
| 241. Logic.—3 s.h.                  | ASSOCIATE PROFESSOR LEONARD |
| 242. Scientific Methodology.—3 s.h. | ASSOCIATE PROFESSOR LEONARD |

#### DEPARTMENTAL MAJOR

*Prerequisite:* Philosophy 48, but this course may be taken concurrently with courses that count toward the major.

*Major Requirements:* Twenty-four semester hours in philosophy. The program must include:

- 3 s.h. in the history of ancient philosophy (Course 93 or 211).
- 3 s.h. in the history of modern philosophy (Course 94 or 212).
- Philosophy 117 (waived for students who take Course 49).
- 6 s.h. of work in the 200 series.

The prospective major should consult the director of undergraduate studies.

#### PHYSICS

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS GORDY, NEWSON, NORDHEIM AND SPONER; ASSOCIATE PROFESSOR SMITH; ASSISTANT PROFESSOR GREULING; MISS LAROE; MESSRS. LEWIS AND SEEVERS; AND ASSISTANTS

##### 1-2. Introductory Physics.—8 s.h.

PROFESSORS CARPENTER AND HATLEY AND STAFF;  
AND ASSISTANTS

**51-52. General Physics.**—*Prerequisite:* Mathematics 5-6 or equivalent (Mathematics 6 may be taken concurrently). 10 s.h.

PROFESSORS HATLEY AND CARPENTER AND STAFF; AND ASSISTANTS

**101-102. Intermediate Physics—Mechanics and Heat.**—*Prerequisites:* Physics 1-2 or 51-52 or equivalent, and a course in differential and integral calculus which may be taken concurrently. 8 s.h. PROFESSOR NIELSEN

**151-152. Intermediate Physics—Electricity and Optics.**—*Prerequisites:* Physics 101-102 or equivalent work approved by the instructor and differential and integral calculus. 8 s.h. PROFESSORS NIELSEN AND HATLEY

A course in general college physics, Physics 101-102 or equivalent validated by examination, and a course in differential and integral calculus are prerequisites to all courses numbered 200 and above.

##### 201-202. Mechanics.—6 s.h.

ASSOCIATE PROFESSOR SMITH

##### 203-204. Electricity and Magnetism.—6 s.h.

ASSOCIATE PROFESSOR SMITH

##### 205. Spectroscopy.—4 s.h.

PROFESSOR SPONER

##### 207. Sound and Acoustics.—3 s.h.

PROFESSOR NIELSEN

[Not offered in 1949-50]

##### 213-214. Contemporary Physics.—6 s.h.

ASSISTANT PROFESSOR GREULING

##### 217-218. Advanced Physics Laboratory.—2-6 s.h.

THE STAFF

##### 219. Electron Tubes and Their Application.—4 s.h.

ASSOCIATE PROFESSOR SMITH

**220. Electronic Circuit Analysis.—4 s.h.**

PROFESSOR GORDY OR ASSOCIATE PROFESSOR SMITH

**221-222. Introduction to Theoretical Physics.—8 s.h.****225-226. Elementary Investigations.—3-6 s.h.**

THE STAFF

**DEPARTMENTAL MAJOR****A. For the A.B. degree:***Prerequisites:* Physics 1-2 or 51-52 or equivalent, and Mathematics 5-6.*Major Requirements:* Eighteen to twenty-four semester hours in physics including Physics 101-102 and Physics 151-152 or equivalent.**B. For the B.S. degree:***Prerequisites:* Physics 1-2 or 51-52 or equivalent, Chemistry 1-2 and Mathematics 5-6 or equivalent.*Major Requirements:* Not less than twenty-four semester hours in physics including Physics 101-102 and Physics 151-152 or equivalent.**DEPARTMENTAL HONORS PROGRAM***Prerequisites:* Physics 1-2 or 51-52 or equivalent and 101-102 or equivalent. Mathematics six semester hours and Chemistry 1-2.*Honors Program:* Physics 151-152 or equivalent and 12 semester hours of physics in the 200 group; Mathematics 131; electives: twenty-five semester hours or enough to satisfy the requirements for graduation, subject to the approval of the Departmental Honors Committee. Of these, at least six semester hours must be either a course in Geology, Botany or Zoology, or an advanced course in Chemistry or Mathematics.

In addition, the student will arrange with his adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work and in general will constitute a survey of the classical and modern aspects of physics for which ten semester hours credit will be allowed.

At the end of both Junior and Senior years, the student will be given both an oral and a written examination in the field of physics.

**POLITICAL SCIENCE**

PROFESSOR RANKIN, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS COLE, WILSON AND VON BECKERATH; LECTURER ELLIS; ASSOCIATE PROFESSORS HALLOWELL, SIMPSON AND VAN WAGENEN; ASSISTANT PROFESSORS HANSON AND RICHARDS; DR. CHEEK; MESSRS. DEENER AND HATHORN

**21. Principles of Government.—3 s.h.**

ASSOCIATE PROFESSOR VAN WAGENEN

**22. Governmental Problems in International Relations.—3 s.h.**

ASSOCIATE PROFESSOR VAN WAGENEN

**61-62. American Government and Politics.—6 s.h.**

PROFESSOR RANKIN; DR. ELLIS; ASSOCIATE PROFESSORS HALLOWELL AND SIMPSON; ASSISTANT PROFESSORS RICHARDS, HANSON; DR. CHEEK; MR. DEENER, MR. HATHORN

**63-64. Modern Constitutional Government.—6 s.h.**

DR. ELLIS

**111. Survey of Far Eastern Politics.—3 s.h.**

DR. ELLIS

**112. Contemporary Problems in Far Eastern Politics.—3 s.h.**

DR. ELLIS

**121-122. Elements of International Relations.**

ASSOCIATE PROFESSOR VAN WAGENEN

125. American Political Parties and Practical Politics.—3 s.h.  
ASSOCIATE PROFESSOR SIMPSON
136. Major European Governments.—3 s.h. PROFESSOR COLE
141. Public Regulation.—3 s.h. ASSISTANT PROFESSOR RICHARDS
146. Legislation.—3 s.h. ASSOCIATE PROFESSOR SIMPSON
151. Latin-American Political Institutions.—3 s.h. DR. ELLIS
152. Latin-American Political Institutions.—3 s.h. DR. ELLIS
174. Politics and Economics.—3 s.h. PROFESSOR VON BECKERATH
207. American Constitutional Law and Theory.—3 s.h.  
PROFESSORS WILSON AND RANKIN
209. State and Local Government in the United States.—3 s.h.  
PROFESSOR RANKIN
211. Political Institutions of the Far East.—3 s.h.
212. International Politics of the Far East.—3 s.h.
221. International Public Organization.—3 s.h.  
ASSOCIATE PROFESSOR VAN WAGENEN
223. Political Thought to the Seventeenth Century.—3 s.h.  
PROFESSOR WILSON
224. Modern Political Theory.—3 s.h.  
PROFESSOR WILSON AND ASSOCIATE PROFESSOR HALLOWELL
225. Comparative Government.—3 s.h. PROFESSOR COLE
226. Comparative Government.—3 s.h. PROFESSOR COLE
- 227-228. International Law.—6 s.h. PROFESSOR WILSON
229. Recent and Contemporary Political Theory.—3 s.h.  
ASSOCIATE PROFESSOR HALLOWELL
230. American Political Institutions.—3 s.h. PROFESSOR RANKIN
231. American Political Theory.—3 s.h. ASSOCIATE PROFESSOR HALLOWELL
235. The British Commonwealth.—3 s.h. PROFESSOR COLE
- 241-242. The Administrative Process.—6 s.h.
244. Administrative Law.—3 s.h.
252. Spanish-American Constitutionalism.—3 s.h.
271. Sociopolitics and Capitalism.—3 s.h. PROFESSOR VON BECKERATH
291. Municipal Government.—3 s.h.  
PROFESSOR RANKIN AND ASSISTANT PROFESSOR HANSON
292. Municipal Administration.—3 s.h.  
PROFESSOR RANKIN AND ASSISTANT PROFESSOR HANSON

#### DEPARTMENTAL MAJOR

*Prerequisite:* Political Science 61-62 or 63-64.

*Major Requirements:* Eighteen semester hours of work in the Department above courses 61-62 or 63-64, including at least nine semester hours in Senior-Graduate courses.



## PSYCHOLOGY

PROFESSOR ADAMS, CHAIRMAN; MR. S. JAMES GOFFARD, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS DAI, KUDER, LUNDHOLM, RHINE AND ZENER; ASSOCIATE PROFESSORS BANHAM AND KOCH; ASSISTANT PROFESSORS COHEN, MCHUGH AND REICHENBERG-HACKETT; MESSRS. BEVAN AND OHLSON

- 91-92. General Psychology.—6 s.h.  
ASSOCIATE PROFESSOR KOCH; ASSISTANT PROFESSORS MCHUGH, REICHENBERG-HACKETT; MESSRS. BEVAN AND GOFFARD
96. Applied Psychology.—3 s.h. MR. OHLSON
104. Comparative Psychology.—3 s.h. PROFESSOR ADAMS
- 106a. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM
- 106b. Abnormal Psychology.—3 s.h. MR. OHLSON
107. Psychological Analysis of Prominent Characters in Literature.—3 s.h. PROFESSOR LUNDHOLM
109. Introductory Social Psychology.—3 s.h.
111. Advanced General Psychology.—3 s.h. MR. GOFFARD
112. Advanced General Psychology: Action, Motivation, Emotion.—3 s.h.
115. Psychology of Personality.—3 s.h.  
PROFESSOR RHINE AND ASSISTANT PROFESSOR REICHENBERG-HACKETT
116. Psychology of Adjustment.—3 s.h.  
ASSISTANT PROFESSOR REICHENBERG-HACKETT
119. Elementary Laboratory Psychology.—4 s.h. MR. GOFFARD
120. Basic Statistical Techniques in Psychology.—3 s.h. MR. GOFFARD
121. Child Psychology.—3 s.h. ASSISTANT PROFESSOR MCHUGH
126. Adolescent Psychology.—Prerequisite: Psychology 121 or Education 8 or 88. 3 s.h. ASSISTANT PROFESSOR MCHUGH
130. Elementary Clinical Psychology.—3 s.h. MR. OHLSON
203. Dynamic Psychology: Conation and Our Conscious Life.—3 s.h.  
PROFESSOR LUNDHOLM
204. Motivation and Learning.—3 s.h. PROFESSOR ZENER
206. Social Psychology.—3 s.h.
207. Psychology of Memory, Thinking, and Perceiving.—3 s.h.  
PROFESSOR ZENER
209. Experimental Methods in Human Psychology.—4 s.h.  
PROFESSOR ZENER
212. Physiological Psychology.—3 s.h. PROFESSOR ZENER
215. Developmental Psychology.—3 s.h. PROFESSOR ADAMS
219. Psychometrics.—3 s.h. ASSOCIATE PROFESSOR BANHAM
223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM
226. Psychology: Historical and Theoretical.—3 s.h. PROFESSOR ZENER
228. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM

## 231-232. Introduction to Research.

PROFESSORS ADAMS, LUNDHOLM, RHINE, ZENER; ASSOCIATE PROFESSORS  
BANHAM AND KOCH; ASSISTANT PROFESSORS MCHUGH  
AND REICHENBERG-HACKETT

## 236. Theoretical Psychology.—3 s.h.

ASSOCIATE PROFESSOR KOCH

## 241. Introduction to the Rorschach Test.—3 s.h.

ASSISTANT PROFESSOR REICHENBERG-HACKETT

242. Advanced Study of the Rorschach Test.—Prerequisite: Psychology  
241 or equivalent. 3 s.h. ASSISTANT PROFESSOR REICHENBERG-HACKETT

## 254. Experimental Psychopathology.—3 s.h.

## 265. Fundamental Statistical Procedure in Psychology.—3 s.h.

PROFESSOR KUDER

266. Advanced Statistics of Psychological Investigation.—Prerequisite:  
Psychology 265 or its equivalent. 3 s.h. PROFESSOR KUDER

## DEPARTMENTAL MAJOR

*Prerequisite:* Psychology 91-92 or equivalent.

*Major Requirements:* 24 s.h. of work in the department including Psychology 91-92, Psychology 119 (Elementary Laboratory), one semester of psychological statistics, and at least 6 s.h. in Senior graduate courses. Related work must include Zoology I and 2 or equivalent in biology, and 6 s.h. of sociology or anthropology.

## RELIGION

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; PRO-  
FESSORS CANNON, HICKMAN, SPENCE, AND STINESPRING; ASSOCIATE PRO-  
FESSORS CRUM AND DICKS; ASSISTANT PROFESSORS PHILLIPS, SPENCE, AND  
YOUNG; DR. BROWNLEE; MESSRS. JONES AND POPE

## 1. The English Bible.—3 s.h.

ASSISTANT PROFESSOR SPENCE; DR. BROWNLEE;  
MESSRS. JONES AND POPE

## 2. The English Bible.—3 s.h.

ASSISTANT PROFESSOR SPENCE; DR. BROWNLEE;  
MESSRS. JONES AND POPE

## 51. The History of the Hebrew People.—3 s.h.

PROFESSOR MYERS; ASSISTANT PROFESSOR SPENCE;  
DR. BROWNLEE; MESSRS. JONES AND POPE

## 52. New Testament Life and Literature.—3 s.h.

PROFESSOR MYERS; ASSISTANT PROFESSORS PHILLIPS AND  
SPENCE; DR. BROWNLEE; MESSRS. JONES AND POPE

91. Fundamentals of Christian Morality: An Introduction to Christian  
Ethics.—3 s.h. ASSOCIATE PROFESSOR McLARTY

## 101. The Social Teachings of the Prophets and Jesus.—3 s.h.

ASSISTANT PROFESSOR PHILLIPS

## 102. The Christian Church in the Social Order.—3 s.h.

## 103. The Prophets of the Old Testament.—3 s.h.

PROFESSOR MYERS

## 104. The History and Religion of the Jews to the Roman Period.—3 s.h.

PROFESSOR MYERS

## 114. The Life and Teachings of Jesus.—3 s.h.

PROFESSOR MYERS

## 163. Religious Education of Children.—3 s.h.

ASSISTANT PROFESSOR SPENCE

167. Contemporary Religious Problems.—3 s.h.  
ASSISTANT PROFESSOR PHILLIPS
168. Masterpieces of Great Religious Literature.—3 s.h. PROFESSOR SPENCE
169. Character Problems.—3 s.h. ASSOCIATE PROFESSORS CRUM AND DICKS
170. Religion and the Family.—3 s.h. ASSOCIATE PROFESSOR CRUM
171. Introduction to the Psychology of Religion.—3 s.h.  
PROFESSOR HICKMAN
181. The Nature and Early Development of Religion.—3 s.h.  
PROFESSOR CANNON
182. Living Religions of the World.—3 s.h. PROFESSOR CANNON
183. The Religious and Social Contributions of the World's Great Religions.—3 s.h.  
PROFESSOR SPENCE
193. A Study of Materials Suitable for Public School Courses in Religion and Ethics.—3 s.h.  
ASSOCIATE PROFESSOR CRUM
- 201-202. First Hebrew.—6 s.h. PROFESSOR STINESPRING AND MR. POPE
- 207-208. Second Hebrew.—6 s.h. PROFESSOR STINESPRING AND MR. POPE
- 211-212. Hellenistic Greek.—6 s.h. ASSISTANT PROFESSOR YOUNG
265. Religious Drama.—3 s.h. PROFESSOR SPENCE
268. Religious Drama Construction and Production.—3 s.h.  
PROFESSOR SPENCE

## DEPARTMENTAL MAJOR

*Prerequisite:* Religion 1-2, or 51-52.

*Major Requirements:* A major in the Department of Religion consists of eighteen semester hours of work, exclusive of courses primarily for Freshmen selected with the approval of the instructor under whose supervision the student does his major work. Six of the eighteen semester hours must be in courses with biblical content.

## ROMANCE LANGUAGES

PROFESSOR JORDAN, CHAIRMAN; PROFESSOR WALTON, DIRECTOR OF UNDERGRADUATE STUDIES IN FRENCH; ASSOCIATE PROFESSOR DAVIS, DIRECTOR OF UNDERGRADUATE STUDIES IN SPANISH; ASSISTANT PROFESSOR DOW, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH; MR. PRATT, SUPERVISOR OF FRESHMAN INSTRUCTION IN SPANISH; PROFESSOR COWPER; ASSOCIATE PROFESSOR CASTELLANO; ASSISTANT PROFESSORS ARCHIE AND RAYMOND; DR. LLERENA; MESSRS. DEMOREST, HAMILTON, AND NAJAM; MRS. CASTELLANO, MRS. DOW, MRS. GAULT, MISS MATTHEWS

## FRENCH

- 1-2. Elementary French.—6 s.h.  
PROFESSORS COWPER AND WALTON; ASSISTANT PROFESSORS ARCHIE, DOW AND RAYMOND; MESSRS. DEMOREST AND NAJAM
- 3-4. Intermediate French.—Prerequisite: French 1 and 2 or two years of high-school French. 6 s.h.  
PROFESSORS COWPER, JORDAN AND WALTON; ASSISTANT PROFESSORS ARCHIE AND RAYMOND; MRS. DOW; MESSRS. DEMOREST AND NAJAM
- 51-52. Introduction to French Literature.—Prerequisite: French 3 and 4 or equivalent. 6 s.h.  
PROFESSORS JORDAN AND WALTON; ASSISTANT PROFESSORS ARCHIE, DOW AND RAYMOND; MR. DEMOREST

55. Intermediate Conversation.—1 s.h. Mrs. Dow

56. Intermediate Conversation.—1 s.h. Mrs. Dow

108. The French Romantic Movement.—3 s.h.  
[Not offered in 1949-50] ASSISTANT PROFESSOR RAYMOND

111-112. French Drama since 1850.—6 s.h. ASSISTANT PROFESSOR DOW

113. French Drama of the Seventeenth Century.—3 s.h.  
ASSISTANT PROFESSOR RAYMOND

127-128. Advanced Composition and Conversation.—6 s.h. Mrs. Dow

129-130. Great Men and Events in the French Literary Tradition.—Pre-requisite: French 51-52. 6 s.h.  
[Not offered in 1949-50] PROFESSOR WALTON

213. French Classicism.—3 s.h. PROFESSOR WALTON

214. French Classicism.—3 s.h. PROFESSOR WALTON

215-216. The Modern French Novel.—6 s.h.  
[Not offered in 1949-50] PROFESSOR JORDAN

219. Old French.—3 s.h. PROFESSOR COWPER

220. Old French.—3 s.h. PROFESSOR COWPER

227. French Poetry since Théophile Gautier.—3 s.h. PROFESSOR WALTON

232. Rousseau and the Beginnings of Romanticism.—3 s.h.  
PROFESSOR COWPER

238. Anatole France.—3 s.h. PROFESSOR WALTON

#### ITALIAN

181-182. Italian.—6 s.h. PROFESSOR ORSINI

#### SPANISH

1-2. Elementary Spanish.—6 s.h.

DR. LLERENA; MRS. CASTELLANO, MRS. DOW, MRS. GAULT, MISS MATTHEWS; MESSRS. HAMILTON AND PRATT

3-4. Intermediate Spanish.—Prerequisite: Spanish 1-2 or two years of high-school Spanish. 6 s.h.

ASSOCIATE PROFESSOR DAVIS; DR. LLERENA; MRS. CASTELLANO, MRS. GAULT, MISS MATTHEWS; MESSRS. HAMILTON AND PRATT

61-62. Special Section.—6 s.h.

[Not offered in 1949-50]

63-64. Special Section.—6 s.h.

[Not offered in 1949-50]

65. Introduction to Modern Spanish Literature.—Prerequisite: Spanish 3-4, 63-64, or equivalent. 3 s.h.

ASSOCIATE PROFESSORS DAVIS AND CASTELLANO; DR. LLERENA; MRS. CASTELLANO, MRS. GAULT AND MR. PRATT

66. Introduction to Modern Spanish Literature.—Prerequisite: Spanish 65 or equivalent. 3 s.h.

ASSOCIATE PROFESSOR CASTELLANO; MRS. CASTELLANO AND MRS. GAULT

68. Introduction to Spanish-American Literature.—3 s.h.

ASSOCIATE PROFESSOR DAVIS; DR. LLERENA; MRS. GAULT AND MR. PRATT



**71. Intermediate Conversation.**—Prerequisite: completion of Spanish 4 or consent of instructor. 1 s.h. MRS. CASTELLANO

**72. Intermediate Conversation.**—1 s.h. MRS. CASTELLANO

**155. Survey of Spanish-American Literature.**—Prerequisite: Spanish 65-66 (or 68), or special permission. 3 s.h. ASSOCIATE PROFESSOR CASTELLANO

**156. Survey of Spanish-American Literature.**—Prerequisite: Spanish 155, or 65-66 (or 68) with special permission. 3 s.h. ASSOCIATE PROFESSOR CASTELLANO

**173. Advanced Conversation.**—Prerequisite: Spanish 66 (or 68) and 71-72, or permission. 3 s.h. ASSOCIATE PROFESSOR CASTELLANO

**174. Phonetics and Diction.**—Prerequisite: Spanish 173 or special permission. 3 s.h. ASSOCIATE PROFESSOR CASTELLANO

**253. Spanish Phonetics.**—Prerequisite: Spanish 173-174 or equivalent. 3 s.h.

[Not offered in 1949-50]

**257-258. Old Spanish Language and Literature.**—6 s.h.

ASSOCIATE PROFESSOR DAVIS

**260. Advanced Composition and Syntax.**—Prerequisite: Spanish 173-174 or permission. 3 s.h. ASSOCIATE PROFESSOR DAVIS

**261-262. Modern Spanish Novel.**—Prerequisite: 6 s.h. from courses 155 to 174 inclusive, or 65-66 (or 68) and instructor's permission. 6 s.h. ASSOCIATE PROFESSOR CASTELLANO

**264. Modern and Contemporary Spanish Theatre.**—3 s.h.

ASSOCIATE PROFESSOR CASTELLANO

**265. Golden Age Literature: Cervantes.**—3 s.h.

**266. Golden Age Literature: The Drama.**—3 s.h.

#### THE TEACHING OF ROMANCE LANGUAGES

**118. The Teaching of Romance Languages (Education 166).**—3 s.h.

ASSOCIATE PROFESSOR DAVIS

#### DEPARTMENTAL MAJOR

##### *Prerequisites:*

For French: French 51-52, or equivalent.

For Spanish: The completion of Spanish 65-66 (or 68), or equivalent.

##### *Major Requirements:*

For French: Eighteen semester hours of work must be completed in courses numbered above 100 and must include: (a) six semester hours in course 127-128; (b) six semester hours of literature in courses 213 to 238. Students desiring the recommendation of the Department for the teaching of Romance Languages will take, in addition, course 118.

For Spanish: Eighteen semester hours of work must be completed in courses numbered above 100 and must include: (a) six semester hours of linguistic training (courses 173-174, 253-260); (b) six semester hours of literature in the courses numbered above 200.

#### RUSSIAN

MR. WIENER

**51-52. Introduction to the Russian Language.**—6 s.h.

MR. WIENER

**101-102. Russian Culture and Literature Through the 19th Century.**—6 s.h.

MR. WIENER

103-104. **An Introduction to Soviet Culture and Literature.**—6 s.h.

MR. WIENER

### SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR JENSEN, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS HART AND THOMPSON; ASSOCIATE PROFESSOR SCHETTLER; ASSOCIATE PROFESSOR LA BARRE; ASSISTANT PROFESSOR WHITRIDGE

91-92. **General Sociology.**—6 s.h.

PROFESSOR JENSEN; ASSOCIATE PROFESSOR SCHETTLER; ASSISTANT PROFESSOR WHITRIDGE

101. **General Sociology.**—5 s.h. *each semester.*

ASSOCIATE PROFESSOR SCHETTLER

#### I. ANTHROPOLOGY

111. **General Anthropology.**—3 s.h.

ASSOCIATE PROFESSOR LA BARRE

112. **Cultural Anthropology.**—3 s.h.

ASSOCIATE PROFESSOR LA BARRE

211. **Peoples of the World.**—Prerequisite: course 111 or 112. 3 s.h.

ASSOCIATE PROFESSOR LA BARRE

212. **Primitive Religion.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

ASSOCIATE PROFESSOR LA BARRE

213. **Personality and Society.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
[Admission only by consultation with the instructor.]

ASSOCIATE PROFESSOR LA BARRE

214. **Personality and Culture.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
[Admission only by consultation with the instructor.]

ASSOCIATE PROFESSOR LA BARRE

#### II. ECOLOGY AND POPULATION MOVEMENTS

133. **Sociology of the South.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR THOMPSON

134. **Human Ecology.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR THOMPSON

136. **Human Migration.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
[Not offered in 1949-50]

PROFESSOR THOMPSON

137. **The Negro in America.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
[Not offered in 1949-50]

PROFESSOR THOMPSON

233. **Rural Sociology.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR THOMPSON

235. **Urban Sociology.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR THOMPSON

237. **Community and Society.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR THOMPSON

238. **Race and Culture.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.

PROFESSOR THOMPSON

#### III. COLLECTIVE BEHAVIOR

149. **Introduction to Child Welfare.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
[Second semester, 1949-50]

PROFESSOR JENSEN

243. **Social Attitudes and Collective Behavior.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. ASSOCIATE PROFESSOR SCHETTLER

246. **Public Opinion and Propaganda.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. ASSOCIATE PROFESSOR SCHETTLER

249. **Child Welfare.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
[Offered in Summer Session 1949] PROFESSOR JENSEN

250. **Marriage and the Family.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. PROFESSOR HART

#### IV. SOCIAL ORGANIZATION AND DISORGANIZATION

153. **The Fields of Social Work.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. ASSISTANT PROFESSOR WHITRIDGE

157. **Social Change and Social Control.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. ASSOCIATE PROFESSOR SCHETTLER

158. **Sociology of the Professions and Occupations.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. ASSOCIATE PROFESSOR SCHETTLER

262. **Education and the Cultural Process.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. PROFESSOR THOMPSON  
[Not offered in 1949-50]

271. **Social Pathology.**—Prerequisite: course 91-92, 101, 111 or 112.  
[Second semester, 1949-50] PROFESSOR JENSEN

273. **Special Problems in Social Pathology.**—1 to 3 s.h. PROFESSOR JENSEN

276. **Criminology.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. PROFESSOR JENSEN

277. **Juvenile Delinquency.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
[Not offered in 1949-50]

#### V. SOCIAL THEORY

286. **Social Ethics.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. PROFESSOR HART

288. **Contemporary Problems in Cultural Lag.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. PROFESSOR HART

#### VI. METHODS OF SOCIAL RESEARCH

191. **Principles of Social Case Investigation.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. ASSISTANT PROFESSOR WHITRIDGE

291. **Statistical Methods in Sociology.**—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h. PROFESSOR HART

293. **Special Problems in Social Statistics.**—1 to 3 s.h. PROFESSOR HART

#### DEPARTMENTAL MAJOR

Sociology 91-92 or 101 and twelve additional hours, excluding courses 153 and 191, and including at least six semester hours in Senior-Graduate courses.

## ZOOLOGY

PROFESSOR GRAY, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR HARGITT; ASSOCIATE PROFESSORS HUNTER, WHARTON AND WILBUR; ASSISTANT PROFESSORS BAILEY, HORN, JOHNSON AND ROBERTS; DR. WARD; AND ASSISTANTS

## UNDERGRADUATE COURSES

1. General Zoology.—4 s.h.  
ASSOCIATE PROFESSORS BOOKHOUT AND HUNTER; AND STAFF
2. Animal Biology.—Prerequisite: Zoology 1. 4 s.h.  
ASSOCIATE PROFESSORS HUNTER AND WHARTON; AND STAFF
53. Comparative Vertebrate Anatomy.—Prerequisites: Zoology 1 and 2.  
4 s.h. ASSISTANT PROFESSORS HORN, JOHNSON AND ROBERTS; DR. WARD
92. General Embryology.—Prerequisite: Zoology 53. 4 s.h.  
ASSISTANT PROFESSORS JOHNSON AND HORN
109. Evolution.—Prerequisite: Two years of zoology. 2 s.h.  
ASSISTANT PROFESSOR BAILEY
110. Introduction to Genetics.—Prerequisite: One year of zoology. 2 s.h.  
ASSISTANT PROFESSORS JOHNSON AND ROBERTS
120. Ornithology.—Prerequisite: One year of zoology. Zoology 53 recommended. 4 s.h.  
ASSISTANT PROFESSOR BAILEY
142. Introduction to Human Physiology.—Prerequisite: Zoology 53. 4 s.h.  
DR. WARD
156. Vertebrate Histology.—Prerequisite: Zoology 53. 4 s.h.  
PROFESSOR HARGITT
161. Animal Parasites.—Prerequisite: One year of zoology. 4 s.h.  
ASSOCIATE PROFESSOR WHARTON
171. General Physiology.—Prerequisites: Two years of biology and at least one year of chemistry. 4 s.h.  
ASSOCIATE PROFESSOR WILBUR
193. Fundamentals of Zoology.—3 s.h. PROFESSOR GRAY
196. Seminar: Current Developments in Zoology.—Prerequisites: 53, 92,  
171. 2 s.h. STAFF

## FOR SENIORS AND GRADUATES

204. Advanced Parasitology.—Prerequisite: Zoology 161. 4 s.h.  
ASSOCIATE PROFESSOR WHARTON
- 219-220. Special Problems.—4 s.h. STAFF
222. Entomology.—Prerequisite: One year of zoology. 4 s.h.  
PROFESSOR GRAY
224. Vertebrate Zoology.—Prerequisite: Zoology 53. 4 s.h.  
PROFESSOR GRAY
229. Endocrinology.—Prerequisites: Zoology 53, 92, and 171. 4 s.h.



238. **Systematic Zoology.**—Prerequisite: Zoology 1, 2. 4 s.h.  
ASSOCIATE PROFESSOR WHARTON
253. **Advanced Vertebrate Morphology.**—Prerequisites: Zoology 53 and  
92. 4 s.h. ASSISTANT PROFESSOR HORN
274. **Invertebrate Zoology.**—Prerequisites: Zoology 1 and 2. 4 s.h.  
ASSOCIATE PROFESSOR BOOKHOUT
276. **Protozoology.**—Prerequisites: Zoology 1 and 2. 4 s.h.  
ASSOCIATE PROFESSOR BOOKHOUT

For summer courses in Marine Biology consult the Bulletin of the Duke University Marine Laboratory.

RELATED COURSES, ONE OF WHICH MAY BE COUNTED TOWARD  
A MAJOR IN ZOOLOGY

**Botany 101. Principles of Heredity.**—3 or 4 s.h.  
ASSOCIATE PROFESSOR PERRY

**Botany 103. General Bacteriology.**—4 s.h. PROFESSOR WOLF

**Botany 202. Genetics.**—4 s.h. ASSOCIATE PROFESSOR PERRY

**DEPARTMENTAL MAJOR**

*Prerequisites:* Zoology 1 and 2.

*Major Requirements:* Twenty-four semester hours including courses 53, 92, 171. The remaining twelve hours may be from any other courses for which the student is eligible. Related courses must include at least one year of chemistry.

# THE COLLEGE OF ENGINEERING

## ADMISSION

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Committee on Admissions has received his scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant, since it would enable him to acquaint himself with the facilities of the University and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculating.

*All correspondence relating to admission of men should be addressed to the Secretary of Duke University, Duke Station, Durham, N. C.*

## GENERAL REQUIREMENTS

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English .....	4	Botany .....	1
Latin .....	4	Zoology .....	1
Greek .....	3	General Biology .....	1
German .....	3	Physical Geography .....	1
French .....	3	General Science .....	1
Spanish .....	3	Agriculture .....	2
Mathematics .....	4	Mechanical Drawing .....	2
History and Civics .....	4	Woodwork, Forging, and	
Physics .....	1	Machine Work .....	2
Chemistry .....	1	Household Economics .....	2
		Commercial Subjects .....	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

### ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least ten of the fifteen units required for admission must come from the following:

#### *Required Units*

English .....	3 units
*A Foreign Language .....	2 units
Physical Science .....	1 unit
History .....	1 unit
Algebra .....	1½ units
Plane Geometry .....	1 unit
**Solid Geometry .....	½ unit

#### *Elective Units*

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra .....	½ unit
Trigonometry .....	½ unit
†German or French or Latin or Spanish or Greek .....	1 to 4 units
History or Civics (not the required unit) .....	1 to 3 units
Physics or Chemistry or Biology (not the required unit) .....	1 to 3 units

### ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics, and such other tests as the University may prescribe.

### ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

\* Any deficiency in this requirement may be made up before graduation.

\*\* Any deficiency in this requirement shall be made up before the beginning of the Sophomore year.

† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not, during their first semester, elect more than the minimum number of hours required of the class which they enter except by permission of the Dean of Engineering.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 addition for the privilege of matriculating.

### **FRESHMAN WEEK**

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests in English and mathematics are given. Sectioning in these two subjects is based on the grade made on the placement tests. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

### **SPECIAL STUDENTS**

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

### **FEES AND EXPENSES**

Information as to fees and expenses and room accommodations applicable to the College of Engineering is given, along with similar information for Trinity College and the Woman's College, elsewhere in the catalogue under Fees and Expenses.



# **REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING**

## **GENERAL STATEMENT**

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, or mechanical engineering as a profession and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E. All curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development.

Each of these degrees requires one hundred and forty-eight semester hours of work of which four semester hours is in physical education. A student must have at least a "C" average in his Senior year as well as a "C" average for the entire program.

## **GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING**

### *Uniform Freshman Year*

FIRST SEMESTER			SECOND SEMESTER		
		S.H.			S.H.
Math 5	College Algebra .....	3	Math 50	Analytic Geometry .....	3
Math 6	Trigonometry .....	3	Math 51	Calculus I .....	3
Chem 1	Chemistry .....	4	Chem 2	Chemistry .....	4
Eng 1	English .....	3	Eng 2	English .....	3
Hist E1	History .....	3	Hist E2	History .....	3
G.E. 1	Drawing .....	2	G.E. 2	Drawing .....	2
	Physical Education .....	1		Physical Education .....	1
		19			19

## **GROUP ONE**

### **CIVIL ENGINEERING**

#### *Sophomore Year*

FIRST SEMESTER			SECOND SEMESTER		
		S.H.			S.H.
Math 52	Calculus II .....	3	Math 53	Calculus III .....	3
Phys 51	Physics .....	5	Phys 52	Physics .....	5
Econ 51	Economics .....	3	Econ 52	Economics .....	3
G.E. 57	Statics .....	3	G.E. 107	Strength of Materials ..	3
C.E. 61	Surveying .....	4	C.E. 62	Surveying .....	4
	Physical Education .....	1		Physical Education .....	1
		19			19

*Junior Year*

Eng 113	Advanced Composition ..	3	Eng 151	Public Speaking .....	3
G.E. 58	Dynamics .....	3	G.E. 128	Hydraulics .....	3
C.E. 131	Structures .....	5	C.E. 132	Structures .....	5
C.E. 113	Route Surveying .....	3	C.E. 118	Materials .....	3
E.E. 123	Electric Circuits .....	4	E.E. 124	Electric Machinery .....	4
		<hr/>			<hr/>
		18			18

*Senior Year*

C.E. 123	Sanitary Engineering ...	4	C.E. 124	Sanitary Engineering ..	3
C.E. 135	Soils .....	3	C.E. 116	Highways .....	3
C.E. 133	Reinforced Concrete ...	4	C.E. 140	Indeterminate Structures	3
M.E. 103	Heat Power .....	3	C.E. 144	Projects .....	2
M.E. 115	Mech. Eng. Laboratory	1	M.E. 104	Heat Power .....	3
	Elective (Non-Technical) .....	3	M.E. 116	Mech. Eng. Laboratory	1
		<hr/>			<hr/>
		18			18

**GROUP TWO****ELECTRICAL ENGINEERING***Sophomore Year*

FIRST SEMESTER			SECOND SEMESTER		
		S.H.			S.H.
Math 52	Calculus II .....	3	Math 53	Calculus III .....	3
Phys 51	Physics .....	5	Phys 52	Physics .....	5
Econ 51	Economics .....	3	Econ 52	Economics .....	3
G.E. 57	Statics .....	3	M.E. 52	Kinetics—Mechanism ...	4
E.E. 51	Survey—Electrical Engineering .....	1	E.E. 52	Electricity—Magnetism ..	3
Eng 113	Advanced Composition ..	3		Physical Education .....	1
	Physical Education .....	1			<hr/>
		<hr/>			19
		19			

*Junior Year*

E.E. 101	Circuits .....	3	E.E. 102	Circuits .....	3
E.E. 107	Circuits Laboratory ...	1	E.E. 108	Circuits Laboratory ...	1
E.E. 105	Measurements .....	4	E.E. 106	Electronics .....	4
Math 131	Differential Equations ..	3	E.E. 148	D-C Machinery .....	3
M.E. 103	Heat Power .....	3	M.E. 104	Heat Power .....	3
M.E. 115	Mech. Eng. Laboratory	1	M.E. 116	Mech. Eng. Laboratory	1
G.E. 128	Hydraulics .....	3	Eng 151	Public Speaking .....	3
		<hr/>			<hr/>
		18			18

*Senior Year*

E.E. 257	A-C Machinery .....	3	E.E. 258	A-C Machinery .....	3
E.E. 163	Machinery Laboratory ..	1	E.E. 164	Machinery Laboratory ..	1
E.E. 261	Communications .....	4	E.E. 262	Communications .....	4
E.E. 165	Seminar .....	1	E.E. 166	Seminar .....	1
E.E. 159	Transmission .....	3	G.E. 107	Strength of Materials ...	3
E.E.	Elective .....	3	G.E. 109	Materials Laboratory ...	1
	Elective (Non-Technical) .....	3	E.E.	Elective .....	2
				Elective (Non-Technical) .....	3
		18			18

**GROUP THREE**

**MECHANICAL ENGINEERING**

*Sophomore Year*

FIRST SEMESTER

SECOND SEMESTER

S.H.			S.H.		
Math 52	Calculus II .....	3	Math 53	Calculus III .....	3
Phys 51	Physics .....	5	Phys 52	Physics .....	5
Econ 51	Economics .....	3	Econ 52	Economics .....	3
G.E. 57	Statics .....	3	M.E. 52	Kinetics-Mechanism ....	4
M.E. 55	Steam Engineering .....	2	Eng 113	Advanced Composition ..	3
M.E. 51	Constructive Processes ..	3		Physical Education .....	1
	Physical Education .....	1			
		<hr/> 20			<hr/> 19

*Junior Year*

M.E. 101	Thermodynamics .....	3	M.E. 102	Thermodynamics .....	3
M.E. 113	Mech. Eng. Laboratory 1	1	M.E. 114	Mech. Eng. Laboratory 2	2
M.E. 105	Fluid Mechanics .....	3	M.E. 108	Aeronautics .....	3
G.E. 107	Strength of Materials ..	3	M.E. 106	Heat Transfer .....	3
G.E. 109	Materials Laboratory ..	1	M.E. 150	Machine Design .....	3
E.E. 123	Electric Circuits .....	4	E.E. 124	Electric Machinery ....	4
Eng 151	Public Speaking .....	3			
		18			18

*Senior Year*

M.E. 151	Machine Design .....	4	M.E. 158	Industrial Engineering .	3
M.E. 155	Internal Combustion Engines .....	3	M.E. 162	Power Plants .....	3
M.E. 153	Heating—Air Conditioning .....	3	M.E. 154	Refrigeration .....	3
M.E. 159	Mech. Eng. Laboratory .	2	M.E. 160	Mech. Eng. Laboratory .	2
	Engineering Elective ...	3		Engineering Elective ...	3
	Elective (Non-Technical) .....	3		Elective (Non-Technical) .....	3
		18			17

## COURSES OF INSTRUCTION, COLLEGE OF ENGINEERING

PROFESSOR HALL, DEAN; PROFESSOR BIRD, CHAIRMAN, CIVIL ENGINEERING; PROFESSOR SEELEY, CHAIRMAN, ELECTRICAL ENGINEERING; PROFESSOR WILBUR, CHAIRMAN, MECHANICAL ENGINEERING; ASSOCIATE PROFESSORS MEIER, REED, AND SNOW; ASSISTANT PROFESSORS EGERTON, HAINES, JONES, KENYON, KRAYBILL, LEWIS, PALMER, VAIL, AND WILLIAMS; MESSRS. BOUTWELL, BROWN, DAVIS, HARDY, HATLEY, HOLLAND, MARTIN, MORGAN, SLAUGHTER, RABIN, AND WILDER

### GENERAL ENGINEERING

1-2. Engineering Drawing.—4 s.h.	STAFF
5. Descriptive Geometry.—2 s.h.	STAFF
57. Statics.—Prerequisite: course G.E. 1-2. 3 s.h.	STAFF
58. Dynamics.—Prerequisites: courses G.E. 57, and Mathematics 52. 3 s.h.	STAFF
107. Strength of Materials.—Prerequisite: course 57. 3 s.h.	STAFF
109. Strength of Materials Laboratory.—1 s.h.	STAFF
128. Hydraulics.—Prerequisite: course G.E. 57. 3 s.h.	STAFF

### CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; ASSOCIATE PROFESSOR SNOW; ASSISTANT PROFESSORS JONES, LEWIS, PALMER, AND WILLIAMS; MESSRS. BROWN, DAVIS, AND WILDER

61. Plane Surveying.—Prerequisites: G.E. 1 and trigonometry. 4 s.h.	MR. BROWN
62. Advanced Surveying.—Prerequisite: course 61. 4 s.h.	MR. BROWN
S110. Plane Surveying.—3 s.h.	STAFF
113. Route Surveying.—Prerequisite: course 61. 3 s.h.	ASSISTANT PROFESSOR WILLIAMS
116. Highway Engineering.—Prerequisites: courses 113, 135. 3 s.h.	ASSISTANT PROFESSOR WILLIAMS
118. Materials of Engineering.—Prerequisite: course G.E. 107 or concurrent. 3 s.h.	ASSISTANT PROFESSOR WILLIAMS
123. Water Supply and Sewage.—Prerequisite: course G.E. 128. 4 s.h.	ASSOCIATE PROFESSOR SNOW
124. Water Purification and Sewage Treatment.—Prerequisite: course C.E. 123. 3 s.h.	ASSOCIATE PROFESSOR SNOW
131. Structures.—Analysis and Elementary Design.—Prerequisites: courses G.E. 57, 107. 5 s.h.	ASSISTANT PROFESSOR PALMER
132. Structures.—Design.—Prerequisite: course 131. 5 s.h.	ASSISTANT PROFESSOR PALMER
133. Reinforced Concrete.—Prerequisite: course G. E. 107. 4 s.h.	PROFESSOR BIRD



135. Soil Mechanics.—Prerequisite: course G.E. 107. 3 s.h.

PROFESSOR BIRD

- 137-138. Seminar.—2 s.h.

STAFF

[Not offered in 1949-50]

140. Indeterminate Structures.—Prerequisites: courses 131, 133. 3 s.h.

PROFESSOR BIRD

- 143-144. Projects in Civil Engineering.—2-6 s.h.

STAFF

### ELECTRICAL ENGINEERING

PROFESSOR SEELEY, CHAIRMAN; ASSOCIATE PROFESSOR MEIER; ASSISTANT PROFESSORS EGERTON, KRAYBILL, AND VAIL; MESSRS. HATLEY, MARTIN, AND SLAUGHTER

51. Survey of Electrical Engineering.—1 s.h.

ASSISTANT PROFESSOR KRAYBILL AND STAFF

52. Principles of Electricity and Magnetism.—Prerequisites: E.E. 51, Mathematics 52. Physics 52 concurrently. 3 s.h.

ASSISTANT PROFESSOR VAIL

- 101-102. Circuits in Electrical Engineering.—Prerequisite: E.E. 52. Mathematics 131 concurrently. 6 s.h.

ASSISTANT PROFESSOR VAIL

105. Electrical Measurements.—Prerequisite: E.E. 52. Mathematics 131 and E.E. 101 concurrently. 4 s.h.

MESSRS. HATLEY AND SLAUGHTER

106. Electron Tubes and Circuits.—Prerequisites: E.E. 101, E.E. 107, E.E. 102 and E.E. 108 concurrently. 4 s.h.

MESSRS. HATLEY AND SLAUGHTER

- 107-108. Circuits Laboratory.—2 s.h.

ASSISTANT PROFESSOR VAIL AND STAFF

123. Principles of Electric Circuits.—Prerequisites: Mathematics 53 and Physics 52. 4 s.h.

ASSISTANT PROFESSORS KRAYBILL AND EGERTON

124. Principles of Electric Machinery.—Prerequisite: E.E. 123. 4 s.h.

ASSISTANT PROFESSORS KRAYBILL AND EGERTON

148. Direct-Current Machinery.—Prerequisites: E.E. 101 and E.E. 107. E.E. 102 and E.E. 108 concurrently. 3 s.h.

ASSOCIATE PROFESSOR MEIER

157. Industrial Applications of Electrical Equipment.—Prerequisite: E.E. 124. 3 s.h.

ASSOCIATE PROFESSOR MEIER

158. Electric-Power Stations.—Prerequisites: E.E. 148 and M. E. 104. E.E. 257-258 concurrently. 3 s.h.

PROFESSOR SEELEY

159. Transmission.—Prerequisites: E.E. 101-102, E.E. 105, E.E. 106, Mathematics 131. 3 s.h.

PROFESSOR SEELEY

- 163-164. Electric Machinery Laboratory.—2 s.h.

ASSOCIATE PROFESSOR MEIER AND MR. MARTIN

- 165-166. Electrical Engineering Seminar.—2 s.h.

STAFF

- 173-174. Projects in Electrical Engineering.—3-6 s.h.

PROFESSOR SEELEY AND STAFF

198. Industrial Control.—Prerequisites: E.E. 101-102, E.E. 106, E.E. 148, and E.E. 257. 3 s.h.

ASSOCIATE PROFESSOR MEIER

- 257-258. Alternating-Current Machinery.—Prerequisites: E.E. 101-102 and E.E. 148. 6 s.h.

ASSOCIATE PROFESSOR MEIER AND MR. MARTIN

261. Communication Engineering: Low Frequency.—Prerequisites: E.E. 101-102, E.E. 106, and Mathematics 131. 4 s.h.

MR. HATLEY

262. Communication Engineering: High Frequency.—Prerequisite: E.E. 261. 4 s.h. MR. HATLEY

263-264. Mathematical Analysis of Electric Circuits.—Prerequisites: E.E. 101-102 and Mathematics 131. 6 s.h. PROFESSOR SEELEY

### MECHANICAL ENGINEERING

PROFESSOR WILBUR, CHAIRMAN; ASSOCIATE PROFESSOR REED; ASSISTANT PROFESSOR KENYON; MESSRS. BOUTWELL, HARDY, HOLLAND, AND MORGAN

51. Constructive Processes.—Prerequisite: Chemistry 2. 3 s.h.  
MESSRS. BOUTWELL, HARDY AND HOLLAND

52. Kinetics-Mechanism.—Prerequisites: G.E. 2, G.E. 57, Mathematics 52. 4 s.h. ASSOCIATE PROFESSOR REED AND MESSRS. HARDY AND BOUTWELL

55. Steam Engineering.—Prerequisite: Chemistry 2. 2 s.h.  
ASSISTANT PROFESSOR KENYON AND MR. HOLLAND

101-102. Engineering Thermodynamics.—Prerequisites: Mathematics 52, Physics 52, M. E. 55. 6 s.h. PROFESSORS WILBUR AND KENYON

103-104. Heat Power Engineering.—Prerequisites: Chemistry 2, Mathematics 52, Physics 52. 6 s.h.  
ASSISTANT PROFESSOR KENYON, MESSRS. HARDY AND HOLLAND

105. Fluid Mechanics.—Prerequisites: M.E. 52, Mathematics 52, Physics 52. PROFESSOR WILBUR AND MR. MORGAN

106. Heat Transfer.—Prerequisites: M.E. 101, M.E. 105, Mathematics 52. M.E. 102 concurrently. 3 s.h. ASSOCIATE PROFESSOR REED

108. Aeronautics.—Prerequisite: M.E. 105. 3 s.h. MR. MORGAN

113-114. Junior Mechanical Engineering Laboratory.—Prerequisite: M.E. 55. M.E. 101-102 concurrently. 3 s.h. PROFESSOR WILBUR AND STAFF

115-116. Junior Mechanical Engineering Laboratory.—2 s.h.  
PROFESSOR WILBUR AND STAFF

150-151. Machine Design.—Prerequisites: G.E. 2, M.E. 52, G.E. 57, M.E. 51, G.E. 107. 7 s.h. MESSRS. BOUTWELL AND HOLLAND

153-154. Heating, Air Conditioning and Refrigeration.—Prerequisites: M.E. 102, M.E. 105, M.E. 106. M.E. 159-160 concurrently. 6 s.h.  
ASSOCIATE PROFESSOR REED

155. Internal Combustion Engines.—Prerequisite: M.E. 101-102. 3 s.h.  
MR. HARDY

158. Industrial Engineering.—3 s.h. ASSISTANT PROFESSOR LEWIS

159. Senior Mechanical Engineering Laboratory.—Prerequisite: M.E. 114. M.E. 153 concurrently. 2 s.h. PROFESSOR WILBUR AND STAFF

160. Senior Mechanical Engineering Laboratory.—Prerequisite: M.E. 159, M.E. 154. M.E. 162 concurrently. 2 s.h. PROFESSOR WILBUR AND STAFF

162. Power Plant Calculations.—Prerequisite: M.E. 101-102 or 103-104. 3 s.h. PROFESSOR WILBUR

197-198. Projects in Mechanical Engineering.—3-6 s.h.  
PROFESSOR WILBUR AND STAFF

## ACADEMIC REGULATIONS

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### TRINITY COLLEGE, WOMAN'S COLLEGE, AND COLLEGE OF ENGINEERING

The undergraduate colleges are operated on the two-semester plan: the autumn semester and the spring semester begin and end in accordance with the published calendar of this bulletin. Two semesters of seventeen weeks each constitute the academic year.

It is important that all students be present on the first day of the session. Those who are late incur the penalties described in this catalogue under the topics: "Admission to College" and "Course Cards." Students who enter after the beginning of the semester are marked absent from classes to which they have been assigned, and these absences carry the same penalty as other absences.

### MATRICULATION, REGISTRATION, AND ENROLLMENT

All new students must appear before the Committee on Admission and obtain cards of admission which must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer certificates of matriculation before they can be registered in classes. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Students whose course cards have been approved in the spring in the manner provided below are given an opportunity during the summer to matriculate by mail for the first semester. No student without an enrollment card is admitted to any class. Students who enter after the beginning of the semester are marked absent in the work they have missed in the courses to which they are admitted, and these absences carry the same penalty as do other absences from the courses.

### COURSE CARDS

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's office. Students who do not select their courses for the following year at the time appointed must pay a fee of \$5.00 to the Treasurer of the University before their course cards may be approved in the fall. The same regulations apply for the second semester. An advance deposit of \$25.00 is required before the last day of the spring registration for the fall semester.

Students whose course cards have been approved but who, for reasons not arising within the University, desire to make changes in the cards

approved are required to pay to the Treasurer a fee of \$1.00 for each change made.

No course may be elected later than two weeks after the opening of the semester.

If a student drops a course without permission from the Dean, the grade for that course shall be recorded as "F."

If a student drops with permission a course in which he is failing at that time, the grade for that course shall be recorded as "F" unless, in the judgment of the Dean, circumstances do not justify this penalty.

### RESIDENCE REQUIREMENT

One year in residence (a minimum of 30 semester hours) is required of all candidates for degrees. The work of the Senior year must be taken in residence with the exception that one course of six to eight semester hours in final fulfillment of requirements may be taken in another institution of approved standing, provided the course is approved by the head of the department concerned and by the Dean.

### DEFINITION OF CREDIT

The term of credit used is the semester hour, which signifies one recitation a week throughout the semester. Two or three hours of laboratory work are equivalent to one hour of class work.

### SEMESTER HOURS AND QUALITY POINTS

The requirements for the degree are computed not only in semester hours but also in quality points. Quality points are the points earned by a student, according to his grades: for an "A" three quality points per semester hour; for a "B" two quality points per semester hour; for a "C" one quality point per semester hour; for a "D" no quality points; for an "F" a loss of one quality point per semester hour. Credit for 124 quality points is required for the degree of Bachelor of Arts or Bachelor of Science. (See page 141 for requirements in the College of Engineering.)

### HOURS OF CLASSWORK

The normal course load of an undergraduate student in the College of Arts and Sciences is five academic courses, 14 to 17 semester hours, and the maximum number permitted is 19 semester hours, exclusive of physical education. No student is permitted to take less than 14 s.h. work without special permission from the Dean; to take more than the normal load of work unless his average grade in the preceding semester is higher than "C."

### CLASS STANDING

For a student to rank as a Sophomore, he must have to his credit twenty-six semester hours with an average grade of "C"; as a Junior, fifty-six semester hours with an average grade of "C"; as a Senior, ninety-two semester hours with an average grade of "C."



### JUNIOR-SENIOR COURSE RESTRICTIONS

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

### SENIOR WORK

A student of the Senior Class, irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete the work of his Senior year with a minimum average grade of "C."

### DEFICIENCIES IN COMPOSITION

The following regulations have been adopted by the Faculty:

1. Any student, who must take English 1 and whose score in the English placement test indicates that he is not yet ready for English 1, must earn a passing grade in English L before being permitted to enter English 1.
2. At the beginning of his Junior year each student must take an examination in English usage. Students who fail to make a satisfactory grade on this examination will be required to complete satisfactorily a special, non-credit course in remedial English.
3. Whenever the work of a student in any course is considered to be unsatisfactory because of gross errors in English, the instructor may report the student to the Dean who will require him to enroll in remedial English until, in the opinion of the director, the deficiency is removed.
4. All instructors are requested to advise their students each semester concerning this regulation.

### EXAMINATIONS

Final examinations are held in all subjects in January and May.

### REGULATIONS REGARDING GRADES

Grades shall be reported so as to indicate one of four things:

- (1) *Passed.* A grade of "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.
- (2) *Failed.* A grade of "F" shall indicate that the student has failed the course, and in order to receive credit for the course he must repeat the work in class.
- (3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) Incomplete courses must be completed before the close of the succeeding semester; otherwise the "I" is recorded as "F," and the course must be repeated in class if the student is to receive credit for it.
- (4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absent from the final examination. (b) A stu-

dent absent from examination and having the grade "X," if his absence has been excused by the Dean of the College, may receive an examination upon the payment of a fee of \$3.00 to the Treasurer of the University. The instructor concerned shall arrange for the examination in cases where absences are excused. (c) All students (with "X" grades), who have not obtained a passing grade before the end of the succeeding semester in which the "X" was incurred, are regarded as having failed in the course concerned and must repeat the work in class in order to receive credit. (d) If a student's absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

### CLASS ATTENDANCE AND ABSENCE REGULATIONS

Regular and punctual attendance in class work is expected of all students. Weekly reports of all absences from class are to be made by each instructor and filed in the Dean's office. No instructor has the authority to excuse a student from class attendance, and it is his duty to report all absences and tardinesses to the Dean's office. Three tardinesses are counted as an absence.

To provide for absences due to brief illness and other absences for necessary reasons, one absence per semester hour credit may be incurred in each course during each semester.

Absences due to continuous illness of at least four days' duration and authorized absences for representation of the University may be excused provided foresight has been used in previous absences.

In the Sophomore, Junior, and Senior classes students who, in a normal schedule, make averages of "B" or above in the preceding semester will be allowed two absences per semester hour but will, in all other respects, be subject to the same regulations as other students.

All absences immediately before and after announced holidays are doubled.

For each unexcused excessive or consecutive absence, the student incurs the loss of quality points in proportion to the number of such absences taken; one quality point for the first absence, two for the second, and three for the third. When the third unexcused, excess, or consecutive absence is incurred, the student is debarred from the course with the loss of six quality points.

When a student's course load is reduced, because of unexcused absences, to less than twelve semester hours, he shall be required to withdraw from the University.

### EXCLUSION FOR FAILURE

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless he passes as much as six semester hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester hours of work in the first semester.

A student of the Freshman Class is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least six semester hours of work in the first semester of the previous year and a total of eighteen semester hours of work for the entire year; any other student is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least nine semester hours of work in the second semester of the previous year and a total of eighteen semester hours of work for the entire year.

#### **STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS**

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester hours with which they are credited, provided an average of "C" is made during the first year in residence.

#### **CANDIDATES FOR ACADEMIC DEGREES**

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be furnished in copy to each department of instruction for information and reference, and also shall be posted in copy on the official bulletin board of the University for the information of the students concerned.

2. Copies of the second such tentative list likewise shall be prepared and distributed by April 15.

3. A final list of all candidates for the degree shall be submitted by the Dean to the Faculty at its first regular meeting in May and shall be adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

A student who completes in a summer session the work required by the University for the Bachelor's degree will be granted the degree at the end of the summer.

## **GENERAL REGULATIONS AND INFORMATION**

### **ASSEMBLY AND CLASS MEETINGS**

#### **TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING**

Monthly meetings of the Sophomore, Junior and Senior Classes of Trinity College and the College of Engineering are held according to their respective schedules. The Freshman Classes of these colleges meet weekly; attendance is compulsory.

#### **WOMAN'S COLLEGE**

A weekly assembly is held for all students in the Woman's College, and an additional assembly for all Freshmen. A meeting of the Freshman Class is held each week, and other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

### **CONDUCT OF STUDENTS**

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University therefore reserves the right, and matriculation by the student is a concession of this right, to ask the withdrawal of any student whose conduct at any time is not satisfactory to the University, even though no specific charge be made against the student.

#### **SCHOLASTIC REGULATIONS FOR ATHLETIC AND OTHER ORGANIZATIONS**

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.

2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satisfactorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not passing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

"The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be the passing by the applicant of a minimum of twenty-four semester hours or thirty-six quarter-hours of the work of his immediately preceding year in college; with the proviso that graduate students and students in the schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."



### **PUBLICATIONS COUNCIL**

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three members from the University Staff appointed by the President of the University; two members from the alumni appointed by the President of the University; six men from the Junior and Senior classes, elected by the students in Trinity College and the College of Engineering; four women from the Junior and Senior classes, elected by the students in the Woman's College; and three editors and three managers of student publications, ex officio members without any voting power.

No student publication can be started at the University without the approval of the Council.

### **REGULATIONS REGARDING PUBLIC LECTURES AND OTHER PUBLIC OCCASIONS**

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council.

(1) The Council on Public Lectures shall provide each year an official calendar.

(2) All public occasions held on either the East or the West Campus are listed for the Weekly Calendar of Duke University in the office of the Department of Alumni Affairs in the West Campus Union. This calendar appears each Saturday, and such notices must be received by 5:00 P.M. on the Thursday preceding.

Social or other events held in the West Campus Union must be listed in the Office of the Director of Alumni Affairs, and permission must be secured for such social use of the public rooms in the building.

### **REPORTS**

A report of each student's class attendance and his proficiency in academic work is sent to his parents or guardians after the examinations at the end of each semester. Mid-semester reports for freshmen are also mailed to parents.

### **ADMINISTRATION OF DISCIPLINE**

General oversight of the conduct of students and the administering of discipline are under the supervision of the Vice-President in the Division of Student Life. The duty of immediate supervision, guidance, and control of the students in each college is entrusted to the Dean of that College. However, through the expressed willingness of the students of the University to assume the responsibility of maintaining high standards of morals and honor at all times, the student body has properly become to a great degree self-governing. Two councils, one of men and the other of women, each composed of duly elected representatives of the student

body, exercise the authority granted the students to investigate all cases of misconduct, as well as all other cases of violation of proper student standards and traditions, and to make recommendations of penalties based on their findings.

The student councils have been helpful to the administrative authorities of the University. They exercise the authority granted them, and also exert a guiding and stimulating influence for the promotion of high ideals of conduct and student relationships.

### HEALTH AND PHYSICAL EDUCATION

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

### MEDICAL CARE

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during both the college year and the summer quarter. The cost of this is included in the general fee paid each semester and in the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmary (one on each campus) and the University Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, X-ray work, and ward, but not special nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., and accidents or illnesses occurring during vacations or while off the campus, are not included in this service. (A commercial accident-expense reimbursement policy is available if desired.) The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

A woman physician is in residence on the Woman's College campus, and a nurse is in constant attendance at the women's Infirmary. Patients in this Infirmary can be transferred to the Duke Hospital at any hour of the day or night. Male students receive ambulant care at the student health office in the hospital building during dispensary hours. Men are admitted to the hospital directly whenever necessary. The emergency service and the specialist consulting services of the Hospital and Medical School are always available.

The printed form for the medical certificate required by the Committee on Admissions, which is sent to all prospective students, includes advice as to certain types of medical and surgical care by their home physician or surgeon, such as the giving of typhoid or smallpox vaccine, removal

of diseased tonsils, correction of errors of refraction, repair of a hernia, or removal of a chronic appendix. Important time is frequently lost in correcting these conditions after entrance into college, and the cost of this work must be borne by the student.

When the student comes to the University, he is given a careful physical examination. Any physical defects are recorded along with the record of the questionnaire from the family physician. All students are requested to be successfully vaccinated against smallpox before admission to the University. It is urgently advised that they take typhoid vaccine if they have not done so within three years.

## **PHYSICAL EDUCATION AND INTERCOLLEGIATE SPORTS**

### **TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING**

The University requires all students to engage in some type of physical activity for two years or four full semesters. This work consists of participation in natural, practical, physical activity for at least three one-hour periods each week. A credit of four semester hours is required in physical education for graduation. The purpose of this work is to improve body control and strength through big muscle activities, to stimulate the development of mental and physical alertness, to establish habits of regular exercise, and to give training and experience in various kinds of recreational sports that will be indulged in after the student graduates from the University.

Intramural sports are fostered and promoted in all lines of athletic activity. Meets, tournaments, and leagues are seasonally organized in the different sports. All students in the University are eligible to enjoy the intramural privileges, provided they comply with the intramural rulings. Participation in these activities is entirely voluntary, but is very popular because it provides an opportunity for every man to enter into competition and recreation in those sports which he enjoys most.

The intercollegiate athletic program is controlled entirely by the University and consists of the organization and training of representative Freshman and varsity teams in the following sports: football, basketball, baseball, track, cross country, swimming, lacrosse, wrestling, tennis, and golf.

### **WOMAN'S COLLEGE**

The Physical Education Department aims to give all students an appreciation of the value of activity for general physical well-being, skill in one or more activities which can be enjoyed as recreation during and after college, a well-developed and well-coordinated body, and a knowledge of good posture and efficient handling of the body in everyday activities.

To this end, students are allowed to choose from a large number of activities including individual, dual, and team sports, swimming, and several types of dancing. In order to insure a variety of skills, each student, during her three years of required physical education, must elect one semester's work in each of the following types of activity: team sports,

individual or dual sports, and dance. All students who are unable to pass the swimming test must take one semester of swimming before graduation. In addition to the two hours per week of activity classes, all Freshmen are required to take a course in orientation in physical education and body mechanics, meeting once a week during the first semester.

In addition to the required work in physical education the Dance Group, the Swimming Club, and the Woman's Athletic Association give opportunities for all students to take part in the types of intramural activities most interesting to them. The swimming pool, tennis courts, and other athletic equipment are available to all students for use at specified times.

#### PHYSICAL EDUCATION AND RECREATION FEES

In order to meet certain hygienic aspects of physical education and intramural athletics the University has made available for all students, in addition to facilities for physical activity and recreation, the following equipment and services:

1. (a) Men. A regulation uniform: shirt, trunks, supporter, socks, sweat clothes, and towel.
- (b) Women. Gym suit, dance costume, bathing suit, warm-up suit.
2. Provision for locker and handling of uniform.
3. The laundering of uniform and towel as needed.

The privileges and services listed above are available to all students who pay full fees, so long as they comply with the rules and regulations established for the care and handling of same.

#### THE ATHLETIC COUNCIL

The Executive Committee of the Board of Trustees at a meeting held on January 8, 1949, received and considered a report from the Board's standing Committee on Physical Education and Athletics recommending a reconstitution of the Athletic Council. The report recommended that the action of the Board of Trustees at its regular annual meeting in June, 1907, by which it set up an Athletic Council, be rescinded and that a new Athletic Council be created. The Executive Committee adopted the report of the Board's standing Committee on Physical Education and Athletics as follows:

The Athletic Council shall be composed of seven members on the following basis:

Three from the Faculty to be appointed at once by the Executive Committee of the Board of Trustees and thereafter annually at the time of the annual Commencement by the President as follows: one member from the General Administration; one member from the undergraduate colleges division of the educational administration; and one member from the instructional staff of the undergraduate colleges. From this group the President shall appoint the Faculty Chairman, who shall be Chairman of the Athletic Council and its Executive Committee.



Four from the Alumni, one of whom shall be a University Trustee, an alumnus, and a member of the Board's standing Committee on Physical Education and Athletics, who is to be appointed not less frequently than every three years by the Chairman of the Board of Trustees. The remaining three of the Alumni members of the Council shall be elected annually by the general Alumni Association for terms of three years and may not succeed themselves. (For the purpose of giving effect to this limitation as of the 1949 Commencement, one member shall be elected for a term of one year, one for two years and one for three years. In order to immediately reconstitute the Council, the Executive Committee of the Board of Trustees shall appoint at once the four Alumni members to serve until their successors are elected or appointed at the 1949 Commencement.)

The Director of Alumni Affairs shall *ex officio* be Secretary of the Athletic Council and of its Executive Committee.

The three Faculty members of the Athletic Council constitute a committee which alone has the responsibility of enforcing the scholarship and athletic requirements of the University for participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference.

The Executive Committee of the Athletic Council is composed of the Faculty Chairman of the Council, one other Faculty member of the Council and one Alumni member of the Council. The Executive Committee of the Council recommends to the President of the University persons to serve as Director of Athletics and as coaches in the various sports. The election of such persons however rests solely with the Board of Trustees of the University or with its Executive Committee on recommendation of the President of the University. The Executive Committee of the Council recommends to the Athletic Council athletic schedules and the award of insignia of merit earned by members of the athletic teams. However, decisions with respect to same rest solely with the Athletic Council subject to approval of the President.

Each of the four undergraduate classes shall select annually, for terms of one year, a member of each respective class to serve in an advisory capacity to the Athletic Council upon call of the Faculty Chairman on the matter of awarding insignia of merit.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is to be made annually by the official auditors of the University and a report thereof made annually to the Executive Committee of the Board of Trustees.

### RELIGIOUS SERVICES

The Duke University Church (Interdenominational) conducts services throughout the year. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. A Vesper service, conducted each Thursday at 7:00 P.M., is sponsored by the Student Religious Council. Organ

recitals and special musical programs are given from time to time on Sunday afternoons in the Chapel. During the summer, carillon recitals are given twice a week.

#### **APPOINTMENTS OFFICE**

The University maintains an Appointments Office, with services extended to all students and alumni without charge. This office has two divisions, commercial (general placement) and educational (teacher placement). Students and alumni are encouraged to register with the office in order to make available in one center information respecting their various qualifications for the employment they seek.

#### **THE BUREAU OF TESTING AND GUIDANCE**

The University maintains a Bureau of Testing and Guidance in which is centralized the counseling and guidance program for students. It is responsible for the administration of various testing programs throughout the year. Included in the responsibilities of the Bureau are admissions tests, placement tests, vocational series, other specialized programs including the Graduate Record Examination, the Navy College Aptitude Test, the Medical College Admissions Test, and specific testing programs requested by the schools and colleges within the University. The Bureau likewise maintains facilities for research projects in the field of guidance and testing and offers such services to schools and individuals outside the community as its facilities permit. Requests for further information should be addressed to The Director, Bureau of Testing and Guidance, Duke Station, Durham, North Carolina.

## **UNIVERSITY LECTURES**

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### **THE AVERA BIBLE LECTURES**

The Avera Bible Fund was established in 1897 in honor of the late W. H. Avera by his wife, who donated \$2,500 for this purpose. The income from this amount is used to establish a lectureship and to provide a collection of books on Biblical Literature.

### **JOHN MCTYEIRE FLOWERS LECTURES**

The John McTyeire Flowers Lectures, established by the late B. N. Duke as a memorial to John McTyeire Flowers, a young alumnus of Trinity College who died in the Far East in 1905, were inaugurated in 1921.

### **UNIVERSITY LECTURE SERIES**

The University Series of Lectures is given each year. These lectures are under the supervision of the Committee on Public Lectures of the Faculty.

### **FOUNDERS DAY**

In commemoration of the signing by the late James B. Duke, on December 11, 1924, of the Indenture of Trust creating the Duke Endowment, under which Trinity College was expanded into Duke University, appropriate exercises are held on Founders Day at the University. Various local alumni groups celebrate the anniversary in connection with their annual meetings, some of which are held on December 11 but most of which take place on other dates during the autumn.

## ALUMNI ORGANIZATIONS

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### GENERAL ALUMNI ASSOCIATION

The Alumni Association of Duke University is composed of the former students of Duke University and its predecessor, Trinity College. The Association gives its annual dinner at Commencement, at which time the annual business meeting of the Association is held.

### GENERAL ALUMNAE ASSOCIATION

The Alumnae Association of Duke University is composed of the women graduates and former students of Duke University and its predecessor, Trinity College. The Association joins with the Alumni Association in the annual dinner at Commencement. The annual business meeting is held during Alumnae Week End.

### DUKE UNIVERSITY NATIONAL COUNCIL

The Duke University National Council is a working body for the alumni interests and maintains a constant supervision of alumni activities. It devotes its activities and efforts to advancing the welfare of Duke University by all appropriate means. Two meetings are held each year, one at Commencement and the other in the fall. The Council is composed of representatives from the various classes, local associations, students, faculty, parents, representatives at large, honorary members, officers of the General Alumni and Alumnae Associations, and representatives from the alumni and alumnae organizations of the professional schools.

### ALUMNAE COUNCIL

The Alumnae Council was established by the General Alumnae Association in 1925. As the working organization of the group which established it, the Council endeavors to bind more closely the alumnae and the University and to advance the interests and aims of Duke University.

### THE ALUMNI OFFICE

The General Alumni Office was organized to promote the work of the local alumni and alumnae associations and to co-ordinate the various activities of the General Alumni and Alumnae Associations and the Duke University National Council and Alumnae Council. Seventy-seven county and local alumni associations have been formed in North Carolina and other states.

### THE ALUMNI REGISTER OF DUKE UNIVERSITY

*The Alumni Register* of Duke University is a monthly magazine published by the Alumni Association in the interest of the alumni and the University. It aims to keep the alumni in touch with one another and with the University.



**THE ALUMNI NEWS**

*The Duke University Alumni News* is sent to all alumni four times during the year.

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**DUKE UNIVERSITY BUREAU OF PUBLIC INFORMATION**

The Duke University Bureau of Public Information is the official publicity agency of the University for the purpose of sending out news to the press.

## FEES AND EXPENSES

### UNDERGRADUATE COLLEGES OF ARTS AND SCIENCES AND COLLEGE OF ENGINEERING

All fees listed below, with the exception of that for registration, are due and payable at the beginning of each semester. The General Fee, adopted by the Board of Trustees in March, 1947, became effective for the academic year 1947-48 and thereafter, takes the place of various separate fees heretofore collected and is a consolidation, principally for simplification, of these separate fees. Among the fees included in this consolidation are the laboratory fees, athletic fee, publication fee, medical fee, matriculation fee, library fee, and commencement fee. Special fees for instruction in Applied Music are listed elsewhere in the bulletin.

Registration, payable only once, on notice of acceptance. This is not refundable .....	\$ 20.00
Tuition .....	175.00
General Fee .....	75.00

An advanced deposit of \$25.00 is required of all students at the time of spring registration in order to reserve a place in the classes for the fall semester. This is applied toward payment of the general fee upon the opening of the fall semester. The deposit will be refunded to students whom the University does not permit to return. Students who fail to return of their own volition are not entitled to a refund.

An advance deposit of \$25.00 is also required of old students who have been out of school for one or more semesters and have been accepted for readmission. It is applied toward payment of the general fee for the semester of readmission. The advance deposit is paid at the time of acceptance and is not refundable.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary expenses are as follows:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$350.00	\$ 350.00	\$ 350.00
General Fee .....	150.00	150.00	150.00
Room-rent .....	100.00	125.00	175.00
Board .....	325.00	375.00	450.00
Laundry .....	25.00	30.00	35.00
Books .....	20.00	30.00	40.00
	\$970.00	\$1,060.00	\$1,200.00

The actual fees and expenses necessary for one year in residence as a student in Trinity College, the Woman's College or the College of Engineering, then, can be met within \$970.00.

**LIVING ACCOMMODATIONS FOR MEN**

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	\$87.50
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	62.50

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet.

One dormitory is assigned to Freshmen.

Rooms may be reserved only for applicants who have been officially accepted by the University. A fee of \$25.00 is required for reservation. This fee is deducted from the room rental charge at the time of registration for the semester; it is not refunded unless application for the refund is made sixty days prior to the registration date of the semester.

A resident student in order to retain his room for the succeeding semester must make application, accompanied by a reservation fee of \$25.00. All rooms which have not been reserved on or before an announced date will be considered vacant for the succeeding semester and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or, in the case of a medical student, one quarter, unless by special arrangement with the Housing Bureau. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The exchange of rooms may be arranged at the Housing Bureau within fifteen (15) days after the official opening of the semester or quarter of the school term. A charge of two dollars (\$2.00) will be made for the exchange of rooms after the periods allowed for such exchange. Persons exchanging rooms without the approval of the Housing Bureau will be subject to charges for both rooms.

The authorities of the University do not assume the responsibility for the personnel selected as roommates. Each student is urged to select the roommate when the room is reserved.

**DORMITORY REGULATIONS FOR MEN**

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and furniture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damages caused by

his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.

2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 A.M. and ceasing at 1:00 P.M., thereby giving the student complete use of his room during the afternoon.

3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.

4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs, and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.

9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University are forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts within the buildings or on the grounds is prohibited except by appointees of the University.

### LIVING ACCOMMODATIONS FOR WOMEN

All undergraduate women except those staying with parents or close relatives are required to live in the residence houses of the Woman's College, which are situated on the East Campus, a mile and a quarter from the West Campus. Exception may be made by the Dean in the case of students over 21 years of age who wish to live off the campus.

*Residence Houses.* The houses, in each of which there is a resident Counselor, are Alsbaugh, Aycock, Bassett, Brown, Giles, Jarvis, Pegram and Southgate. All rooms in Aycock, Jarvis, and Southgate are double. In the other houses there are a few singles and several suites consisting of a double and a single or two singles. Plans of the houses may be obtained from the Dean of Residence, College Station, Durham, North Carolina.

Visitors other than women who are relatives or friends of the occupants are not permitted in any part of a residence house except the lounges, unless they have received permission from the Counselor of the House.

No one—including the occupants of the house—may sell or advertise goods of any kind or solicit funds for any purpose without the permission of the College authorities.

*Room Furnishings.* All rooms contain only the principal articles of furniture. A student is required to supply her own linens, blankets, bedspreads, curtains, and study-lamps. She may, if she wishes, provide additional articles such as scatter-rugs and small tables or bookcases, but she is not permitted to have large rugs or heavy overstuffed furniture.



*Room Rent.* Each occupant of a double room is charged \$62.50 a semester; the occupant of a single room, \$87.50 a semester.

Rooms are rented for no shorter period than one semester, unless by special arrangement with the Dean of Residence. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

*Room Reservations.* Room reservations are made with the Dean of Residence of the Woman's College. To obtain a reservation, a student must pay a fee of \$25.00, which is later deducted from the room rent. A new student should pay this fee as soon as she is accepted by the Committee on Admissions. If she does not pay it within ten days, her admission is cancelled. As an applicant for admission may not reserve a room until she is officially accepted, she is requested not to send the reservation fee before she receives notice of her admission.

A student cancelling her room reservation sixty days or more prior to the official opening of the semester may have her fee refunded. After that date no refunds are made.

In the spring, resident students reserve rooms for the next fall semester in accordance with the plan announced by the Dean of Residence. New students are, as far as possible, given their choice of the remaining rooms.

*Roommates.* A new student who wishes a double room but has made no arrangement for a roommate will be assigned a roommate by the College. After a student has been a resident for one semester, she is responsible for obtaining and keeping a roommate. If a student occupying a double room does not obtain a roommate in the time required by the Dean of Residence—approximately two weeks after the beginning of the semester—she may be required to pay the rental consideration for the entire room.

*Room Occupancy.* After a student has engaged a room, she is not permitted to move to another without the consent of the Dean of Residence. A student leaving one room and occupying another without permission may be charged for both rooms for the entire semester. No student is allowed to rent or sublet the room she has engaged to another occupant.

### DINING SERVICE

*West Campus.*—Food service is cafeteria style. The cost of meals approximates \$1.25 to \$1.75 per day, depending upon the need and taste of the individual. The dining facilities on the West Campus include three cafeterias with multiple choice menus, and, in addition, the Oak Room where full meals and *a la carte* items are served.

*Woman's College, East Campus.*—The dining halls of the Woman's College are situated in the Union and in Southgate. No resident woman is permitted to board elsewhere than at these halls. The charge for board is \$175.00 per semester, payable at the time of registration.

It is hoped that present rates may be maintained. Charges, however, are necessarily dependent upon costs of labor, foods and materials, and some adjustment may be necessary.

Because of the large number of those served in the dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

### REGULATIONS REGARDING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.

2. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full; subsequent withdrawal does not entitle a student to a refund.

3. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all his indebtedness to the University.

4. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the midyear or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time; but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

### TRANSCRIPTS

Students desiring transcripts are entitled to one transcript without charge. A fee of \$1.00 is charged for each additional transcript. Records are not released when any outstanding amount is reported by the Treasurer's Office.

## SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

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Duke University annually awards available scholarships, administers loan funds, and supervises student employment through a committee of the Faculty for deserving undergraduates of Trinity College, the Woman's College, and the College of Engineering.

### SCHOLARSHIPS

Scholarships intended to aid needy and deserving students have been established from time to time by persons deeply interested both in Duke University and in the members of its student body. All scholarship endowments are held in trust and are kept separate and distinct from other holdings of the University. All income is faithfully applied in accordance with the terms of the gift or bequest.

In addition, a limited number of scholarships, notably the honorary awards in recognition of scholastic merit and strength of character, are financed through current funds of the University.

Scholarships are awarded annually by a committee of the Faculty appointed by the President of the University. In some cases donors have specified certain limitations and conditions. These are faithfully followed, but in all cases final award is made by the Faculty committee.

Any prospective student may apply for a scholarship. Applications, however, may be made formally by a prospective student only after his application for admission has been made, all necessary credentials have been presented, and notification of acceptance has been given. All applications are to be by letter and must include on a form furnished by the University a complete statement of the applicant's needs. The number of scholarships available is small in comparison with the number of applicants for these awards. As a result, the committee, in making its decisions, must in so far as possible limit scholarship aid to cases where the need is imperative.

All applications for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University.

### THE ANGIER DUKE REGIONAL SCHOLARSHIP PRIZES

*Value.* Six scholarship prizes of \$750.00 each are awarded annually to four men and two women. Prizes are awarded for one year and are renewable from year to year for a maximum duration of four years, on the condition that the holder maintain a scholastic average in the upper quartile of his class and further that he show evidence of developing the qualities of leadership which served as the basis for the original selection. When all awards are renewed, there are twenty-four holders of prizes in residence. The total value to the recipient who qualifies for the maximum period is \$3,000.00.

*Eligibility.* Any resident of the state of North Carolina is eligible to apply regardless of where he or she prepares for college. A candidate may be a graduate of a secondary school, public or private, located within or beyond the borders of the state. Candidates must be eligible for admission to the Freshman class of Trinity College, the College of Engineering or the Woman's College in the ensuing academic year and must have maintained scholastic standing in the highest quartile of their class.

*Objective.* The prizes are intended to encourage as students young men and women who give promise of becoming leaders in their chosen fields of endeavor. As potential leaders, they should possess character, personality, intellectual integrity, vitality, and imagination. As students they should possess scholastic ability of a creative sort and minds that can digest and use the knowledge they acquire. The scholarships are designed to stimulate young men and women who possess these traits to become citizens with a genuine interest in society and ability to influence and direct the course of affairs.

*Procedure.* Applications for one of the scholarships awarded to men should be addressed to the Office of the Secretary, Duke University, Durham, N. C.; applications for one of the scholarships awarded to women should be addressed to the Director of Admissions, Woman's College, Durham, N. C. The deadline for filing of these applications is December 15 in the academic year preceding the year of contemplated entrance to college.

### LOAN FUNDS

A number of loan funds have been established for the benefit of students of Duke University. The most important and largest of these is the Angier B. Duke Memorial Student Loan Fund, which is administered through an advisory committee of officers of the University. The amount available to be loaned annually depends upon the income from investments and on the amount repaid on loans previously made to students.

The same committee of officers administers the other endowed loan funds of the University.

Although a considerable sum accrues annually for loans to students, it is not sufficient to provide for all calls for assistance. The committee in approving loans selects those students who, from the standpoint of character, scholastic attainment, personality, and degree of financial need, are most deserving of consideration.

The following regulations govern the making of all student loans:

1. No loans shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.

2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an opportunity to acquaint themselves with the worthiness and the need involved in any particular case.



3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.

4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.

5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.

6. Interest at a rate of six per cent annually shall be charged for all loans of money, and the interest must be paid annually.

7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished in the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

### EMPLOYMENT

In order to serve the students attending Duke University who need part-time employment, a student employment office is maintained. There are many work opportunities both on the campus and in the city of Durham. Although there is no definite number of such places, a considerable number of students each year help defray their college expenses by working.

A listing of all known available jobs is kept in this office, and the majority of students who wish to work are placed in suitable jobs. The student employment office also keeps a permanent record of the work activities of the self help students and is able to write recommendations in the Senior year of these students for the Appointments Office.

Prospective students may make application for part-time employment only after they have completed an application for admission and notification of acceptance has been given. The job application should be by letter prior to the reporting date for entrance, and a complete detailed job application form must be completed on the date of arrival at Duke University.

Those students in Trinity College and the College of Engineering in need of such employment may apply to Mr. J. M. Dozier, 209 Administration Building, West Campus. Students in the Woman's College should apply to the Assistant Dean of Residence, 108 East Duke Building, East Campus.

## HONORS AND PRIZES

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To be eligible for Honors a student must earn during the year a credit of not less than thirty semester hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality points per semester hour are given Honors. All semester hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred upon the following rules:

Students who have completed a minimum of ninety semester hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality points per semester hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality points per semester hour are recommended for a degree *summa cum laude*. All semester hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

## MEDALS AND PRIZES

*The Wiley Gray Medal* was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee, the best, with respect to both declamation and composition.

*The Debate Council* authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

*The Robert E. Lee Prize* is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of \$50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in manly virtues and capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

*Alpha Kappa Psi Medallion*. This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

*The Willis Smith Prize*. Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize con-

sisting of a set of books selected personally by Mr. Smith each year for that purpose.

*Julia Dale Prize in Mathematics.* This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

*The Milmow Prize,* consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

*The Tau Beta Pi Prize.* The North Carolina Gamma chapter of Tau Beta Pi, national honorary engineering fraternity, awards each year a suitable prize, such as an engineering handbook, to a Sophomore student in engineering for outstanding scholastic achievement during the Freshman year.

*The Pegram Chemistry Club Prize* will be awarded in the spring of each year for scholarship in chemistry, physics, and mathematics. The prize is to consist of one-year junior membership in the American Chemical Society, and a one-year subscription to either the *Journal of the American Chemical Society*, or to *Industrial and Engineering Chemistry*. To qualify for this prize the student must (1) be enrolled as an undergraduate of Duke University and (2) be taking or have taken a fourth-year chemistry course. The winner of this prize is to be selected by a committee consisting of at least one Faculty member and at least two members of the Pegram Chemistry Club; the selection is to be based on the quality-point average for all courses taken in chemistry, physics, and mathematics. In case of a tie equal awards will be given.

*The Sigma Xi Prize.* The Society of the Sigma Xi, honorary scientific society, is devoted to the encouragement of scientific research, and seeks to stimulate those who show promise of accomplishment in scientific research. As an encouragement to younger men and women the Duke Chapter of Sigma Xi has established the following prizes to be awarded annually to students resident at Duke University: \$20.00 for an undergraduate project or paper, \$20.00 for a Master's thesis or its equivalent, and \$40.00 for a Ph.D. dissertation or its equivalent. Nominations, recommendations, copies of theses, reports or other material must be in the hands of the Secretary of the Chapter on or before May 5.

*The Erasmus Club Prize in the Humanities.* The Erasmus Club, founded in 1925, a group of Duke faculty members interested in research in language, literature, and the arts, seeks to stimulate interest and study in these fields. To encourage Duke students in this field, the Erasmus Club has established an annual prize, amounting to \$25.00, for the best original essay by an undergraduate which embodies the results of research, criticism, or evaluation in some subject in the humanities. Prospective competitors should consult some member of the Faculty, preferably their major professor. Essays must be typewritten and must be

submitted to the president of the Club before the first of April. The Club reserves the right to withhold the prize in case there are no essays of acceptable quality.

*The Anne Flexner Memorial Award in Creative Writing* has been established by the friends and family of Anne Flexner, who graduated from Duke in 1945. It consists of fifty dollars in cash and a book bearing the Anne Flexner Memorial Award bookplate. It is given annually for the best pieces of creative writing submitted by a Duke undergraduate. It is limited to short stories (5,000 word limit), one-act plays (5,000 word limit), poems (100 line limit), and informal essays (3,000 word limit). Only one manuscript may be submitted by a candidate, and manuscripts must be delivered to the English Office, Room 2G5, West Duke, before April 15.

*The William Senhauser Prize* is given by his mother in memory of her son, a member of the Class of 1942, who lost his life in the Pacific Theatre of War on August 4, 1944. The award is made annually to the Sophomore or Junior in Trinity College or the College of Engineering who has made the greatest contribution through participation and leadership in intramural sports. The winner of this prize is chosen by a committee selected by the President of the University.

*The Friends of Duke University Library* offer three prizes of \$25.00, \$15.00, and \$10.00 in an annual contest open to all undergraduate students for the best book collections acquired during their college years. The contest is supervised by the Undergraduate Committee of the Friends of the Library, which announces each fall the terms of the award. Inquiries may be directed to the Curator of Rare Books. Collections entered in the contest are exhibited each spring in the General Library, and the prizes are awarded on the basis of the student's collection and a personal interview to determine the over-all planning and objectives of his collecting activity, and his familiarity with his own books and the general field of his collecting interest.

*Carolina-Duke Prize in Literary Criticism.* A prize of \$100.00 is offered, by Professor Norman Foerster, for the best critical essay submitted by a student at the University of North Carolina (Chapel Hill) or of Duke University. The contest is open to undergraduates and graduates engaged in resident study in any department in the year 1949-1950 or in either semester. It will be awarded at the Commencement in June, 1950. The essays must be examples of theoretical or practical criticism: must deal, that is, with general literary questions (aesthetic or ethical) or with specific writers or writings of any period from antiquity to the present. There is no condition as to length but 1,000 to 4,000 words is suggested. Only one essay may be entered by each contestant. Manuscripts of students at Chapel Hill should be sent to Professor Clifford P. Lyons, Head of the Department of English, Saunders Hall; those of Duke University students to Professor William H. Irving, Acting Chairman of the Department of English, West Duke Building. They must be received not later than March 30.



## STUDENT ORGANIZATIONS AND ACTIVITIES

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*The Men's Association of Duke University* comprises all men students in Trinity College and the College of Engineering. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of nine members: three executive officers, two representatives from the Senior Class, two from the Junior Class, and one from the Sophomore Class, and one from the College of Engineering.

*The Women's Student Government Association* is similar in character to the men's association. Its council is composed of the officers of the Association, house presidents and president of the Town Girls' Club, class representatives, and chairman of the Freshman Advisory Council, *ex officio*.

*The Young Men's Christian Association* and the *Young Women's Christian Association* are branches of the national student Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. These organizations carry on extensive activity in the fields of social service, faculty-student relations, forums, and other related projects. Membership in the Student Religious Council relates these organizations to the total religious activities program of the Duke University Church, Interdenominational.

Other organizations and activities include the following:

Bench and Bar Society (Pre-Legal Undergraduates); Class of 1949; Class of 1950; Class of 1951; Class of 1952; Classical Club (Men); Club Panamericano; Commodore Club; Debate Council (Men); Duke Masonic Club; Duke Players; Duke University Church (Interdenominational); Duke University Handbook and Directory; Duke University Steering Committee; Engineers' Club; G. O. Politan Club; Graduate Club; Hoof 'n' Horn Club; Interfraternity Council; Intramural Athletic Department; Men's Freshman Advisory Council; Pegram Chemistry Club; Pre-Medical Society; Quadrangle Pictures; Shoe and Slipper Club; Student Religious Council; Town Boys' Club; Town Girls' Club; Woman's College Student Forum; Women's Athletic Association; Women's Freshman Advisory Council; Young Democrats Club.

### HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Alpha Kappa Psi (Economics); Chi Delta Phi (Literary); Delta Phi Alpha (German); Kappa Chi (Pre-Ministerial); Kappa Delta Pi (Educational); Omicron Delta Kappa (Leadership—Men); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship—Men); Pi Mu Epsilon (Mathematics); Sigma Delta Pi (Spanish); Sigma Pi Sigma (Physics); Tau Kappa Alpha (Forensic); Tau Psi Omega (French); Theta Alpha Phi (Dramatic).

**HONORARY ORDERS AND FRATERNITIES (LOCAL)**

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); Ivy (Scholarship—Freshman Women); Mu Sigma (Psychology); Phi Kappa Delta (Leadership—Women); Sandals (Sophomore—Women); Varsity "D" Club (Athletic—Men); White Duchy (Leadership—Senior Women).

**ENGINEERING STUDENT PROFESSIONAL SOCIETIES**

Student branches of the following national professional engineering societies are active at the College of Engineering: American Institute of Electrical Engineers; the American Society of Civil Engineers; the American Society of Mechanical Engineers; and the Institute of the Aeronautical Sciences.

**ENGINEERING STUDENT HONORARY SOCIETIES**

Tau Beta Pi (National Honorary Engineering Fraternity); Pi Tau Sigma (Mechanical Engineering National Honorary Society); Order of St. Pat (Leadership).

**MUSICAL ORGANIZATIONS**

Chamber Orchestra; Concert Band; Madrigal Singers; Marching Band; Men's Glee Club; Music Study Club; Symphony Orchestra; University Chapel Choir; Women's Glee Club.

**N.R.O.T.C. ORGANIZATION**

Commodore's Club, N.R.O.T.C. Social Organization.

**SOCIAL FRATERNITIES (NATIONAL)**

(The Men's Interfraternity Council)

Alpha Tau Omega; Beta Theta Pi; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Theta Chi; Zeta Beta Tau.

**SOCIAL SORORITIES (NATIONAL)**

(The Women's Pan-Hellenic Council)

Alpha Chi Omega; Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Delta Gamma; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

**STUDENT PUBLICATIONS**

(Publications Board)

*Archive* (Monthly); *Chanticleer* (Annual); *Chronicle* (Weekly); *Duke 'n' Duchess* (Monthly Humor); *DukEngineer* (Bimonthly).

**STUDENT ACTIVITIES OFFICE**

The Student Activities Offices were established for the purpose of assisting and co-ordinating the financial activities of the various student

organizations in Trinity College, the College of Engineering, and the Woman's College.

The offices offer to student organizations a banking service through the office of the University Treasurer. They also provide auditing services for organizations requiring it. Permanent records of all financial activities of organizations are kept under the supervision of the offices. The Student Activities Offices, co-operating with the University Purchasing Department, also serve in the capacity of purchasing agent for affiliated student organizations. **There is no charge for this service.**

In addition to these specific services, the purpose of the offices is to promote well organized and effective extra-curricular interest.

Student Activities Offices for Trinity College and the College of Engineering are located on the West Campus, and for the Woman's College on the East Campus.





THE GRADUATE SCHOOL  
OF ARTS AND SCIENCES

1948-1949

ANNOUNCEMENTS FOR 1949-1950

# GRADUATE INSTRUCTION IN DUKE UNIVERSITY

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## ADMISSION

### TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree from an institution of recognized standing for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided that his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.

All new applicants for admission to graduate courses are now required to take the Graduate Record Examination before they can be admitted. In cases where it is not possible to take the Examination before arrival at Duke University and where the transcript of work taken elsewhere clearly shows that the student is otherwise eligible, the Examination may be taken the first time it is given here after the student's arrival. Students may make their arrangements for taking this Examination directly with the Graduate Record Office, 437 West 59th Street, New York 19, N. Y. Examinations are conducted several times each year at centers distributed throughout the United States and Canada, and wherever possible students should apply to such a center for the Examination.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a semester not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the semester graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education if registered in the Graduate School Office at the beginning of the term and if the student meets the requirements below for formal admission to the Graduate School.

A candidate for admission to graduate courses should ask the proper officer of the college, or colleges, he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work completed by him. Students who have attended more than one college or university should note that certification by one institution of work completed at another institution cannot be accepted. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student.

An application blank for admission will be provided upon request to

the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School by August 1 for admission in the autumn semester and by January 1 for admission in the spring semester.

Letters of recommendation are required of each candidate for admission. The applicant should ask two or three professors qualified to speak of his promise as a graduate student to write letters of appraisal to Dr. Paul Gross, Dean of the Graduate School of Arts and Sciences, Duke University, Durham, North Carolina.

#### TO THE GRADUATE SCHOOL

After twelve semester hours of graduate courses, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University.\* Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with its requirements and are acceptable to the major department.

A graduate student may be requested to withdraw from the University at the discretion of the Dean of the Graduate School.

#### REGISTRATION

Before actually registering in the Graduate School Office, the student who is admitted to graduate courses should consult with the Director of Graduate Studies or his representative in the department in which he proposes to major and receive written approval of his schedule of courses. This can be done during the registration period in September and January. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. Students who have fulfilled the minimum residence requirements for the doctorate but who are continuing resident study at Duke University for the degree should register in the Graduate School Office.

New students are advised to arrive early during the registration period in order to formulate their programs. *Anyone registering for courses after the close of the regular registration period will be charged a late registration fee of five dollars.*

\* In meeting the requirements for the A.B. or B.S. degree at Duke University, a student is not allowed excessive concentration in any one field. The same principle is applied in evaluating the undergraduate record of candidates for admission to the Graduate School.

**TUITION AND FEES****GENERAL FEES IN THE ACADEMIC YEAR**

The following table shows the general fees and charges collected from all students. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester. No student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

Tuition, per semester.....	\$175.00
General Fee,* per semester.....	60.00
Athletic Fee, not including Federal Tax, Optional, per semester.....	5.00
Special Dissertation Fee, payable by candidates for Ph.D. degree in the last semester before the degree is granted. Returned on satisfactory publication of thesis. ....	50.00

**SPECIAL FEE**

An administrative fee is charged in connection with special graduate research work in the summer under direction of a member of the Faculty.

**STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL**

Under an experimental plan of co-operation between the University of North Carolina and Duke University, students regularly enrolled in the University of North Carolina Graduate School and paying full fees to that institution may be admitted to courses in the Duke University Graduate School on payment of a registration fee of two dollars and any other special fees which are required of all students.

**TRANSCRIPTS**

A student desiring to transfer from Duke University to another institution is entitled to one free transcript of his record. A charge of one dollar, payable in advance, is made for each additional copy. Transcripts of students who enroll in graduate courses only in the summer sessions are issued by the Summer Session Office prior to the fulfillment of all requirements toward an advanced degree, after which time they can be obtained in the regular way from the Graduate School.

**PAYMENTS TO FELLOWS, SCHOLARS, AND GRADUATE ASSISTANTS**

Payments by the University of stipends to fellows, scholars, and graduate assistants are made in four equal installments, at approximately the middle and end of each semester. Tuition fees are charged against the stipends.

Fellows and scholars are required to pay the regular tuition and fees and are expected to take a full program of work. Assistants who are permitted to register for only four fifths of a regular program are charged a proportionate amount of the tuition in addition to the regular matriculation and other fees.

\* General Fees, in lieu of most special charges, include the following fees: Matriculation, Medical, Library, Damage, Commencement, Diploma, and an average of the Laboratory and Materials Fees.



**SPECIAL CHARGES FOR TEACHERS AND OTHERS**

For the purpose of aiding North Carolina teachers in their professional preparation, Duke University grants a special tuition rate to members of the faculties of neighboring schools and colleges who desire to register during the regular academic session for one or two graduate courses. For such courses a teacher regularly employed and teaching while taking these courses is charged a registration fee of five dollars at the beginning of each semester and a tuition fee of five dollars and twenty-five cents per semester hour of course credit. Under this provision a student may not register for more than seven semester hours each semester.

Employees of Duke University who are paid on a monthly basis throughout the year, ministers of neighboring churches, and wives of the Duke Faculty may be included under the above provisions by the Dean of the Graduate School, provided that such persons do not receive residence credit in any semester for more than two fifths of a regular program in meeting the requirements for advanced degrees.

The special tuition rate for teachers does not apply to the holders of fellowships, graduate scholarships, and graduate assistantships annually awarded in the Graduate School, nor to teachers on leave of absence and not actually engaged in their teaching at the time of registration.

**FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS**

For the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships, scholarships and assistantships with stipends ranging from \$450 to \$1,600. Holders of these awards will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for appointments together with supporting credentials should be received on or before March 1 of each year. In case vacancies occur, applications submitted on a later date will be considered. Appointments are made for no longer than one academic year.

In appointing fellows, preference is usually given to applicants who have completed successfully at least one year of graduate work. Fellows will be required to give a limited amount of assistance in reading papers, in laboratories, or in other departmental duties. All fellows carry a full program of graduate work. Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies. Assistants receiving \$700 or more will be registered for four-fifths of a normal program of studies.

Further information and application blanks may be obtained from the Dean of the Graduate School of Arts and Sciences, Duke University, Durham, North Carolina.

Awards offered for the year 1949-50 are listed below.

**FELLOWSHIPS**

One Angier Duke Memorial Fellowship of \$1,600.

Twelve University Fellowships with stipends varying from \$1,050 to \$1,500.

Twelve University Fellowships with stipends varying from \$950 to \$1,200.

Three Gurney Harriss Kearns Fellowships in Religion of \$1,000 each.

#### **GRADUATE ASSISTANTSHIPS**

Approximately eighty additional appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from \$800 to \$1,500 depending upon the nature and amount of the work assigned.

#### **GRADUATE SCHOLARSHIPS**

Fifteen scholarships with stipends varying from \$450 to \$800 each.

##### **CHARLES W. HARGITT RESEARCH FELLOWSHIP IN ZOOLOGY**

The Charles W. Hargitt research fellowship in Zoology, carrying a stipend of \$2,000, is restricted to research work in the field of Cytology. Appointment is for a single year, with the possibility of reappointment. The fellowship is primarily for post-doctoral research. Inquiries and applications should be made to Dr. C. G. Bookhout, Biology Building, Duke University, Durham, North Carolina.

##### **FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY**

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1950, from the Dean of the School of Forestry, Duke University, Durham, North Carolina.

#### **SIGMA XI PRIZE AWARDS**

The Society of Sigma Xi offers each year a prize of \$20 for a Master's thesis or its equivalent and one of \$40 for a Ph.D. dissertation or its equivalent in the fields of Botany, Chemistry, Forestry, Mathematics, Medicine, Physics, Psychology, and Zoology. The student must be in residence during the academic year in which the prize is awarded. Students holding graduate appointments are eligible to compete, but instructors, part-time instructors, and interns are not eligible. The department concerned makes the nomination. Full particulars may be obtained from the secretary of the chapter. Nominations, recommendations, copies of theses, reports, or other materials must be in the hands of the secretary on or before May 1.

#### **ADVANCED DEGREES**

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.). Most departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

#### **THE LIBRARY**

The University Libraries contain 927,701 volumes, 599,760 of which are in the General Library. The remainder are shelved in eight school and departmental libraries: Divinity 43,986 volumes; Hospital 46,516 volumes; Law 87,093 volumes; Woman's College 75,986 volumes; Biology-

Forestry 38,194 volumes; Chemistry 12,733 volumes; Engineering 11,357 volumes; Mathematics-Physics 12,076 volumes.

Most of the printed and manuscript resources of interest to graduate students in the humanities and social sciences are in the General Library building, which recently has been considerably enlarged. The building now has special facilities for the preservation of materials and for assisting research students in their use. Humidity and temperature are controlled throughout the book stack area. All graduate students, upon application, may receive permits admitting them to the stacks where three hundred carrells, some enclosed, are available as places of study. In addition, a special reading and study room for graduate students is provided on the first floor. Special air-conditioned storage, exhibit, and study areas have been established for rare books and manuscripts. Rare books occupy four rooms on the first floor in the new north tower; the manuscripts collection is housed on the ground floor of the same unit. Elsewhere on the ground floor there is a Newspaper Reading Room, where back files of newspapers may be consulted, and a microphotography laboratory with facilities for reproducing printed and other material. The Newspaper Reading Room contains also a battery of microfilm reading machines.

The school and departmental libraries bring books and journals closer to students and faculty in several divisions of the University, particularly in the natural sciences.

The major task in developing a research library for scientists involves securing files of important journals and serials, and from the beginning this has been one of the primary objectives of the Library administration. In 1947-48 the University was receiving currently 3,600 periodicals by subscription, gift, and exchange. Library development in the humanities and social sciences has gone forward with the acquisition of basic collections of source materials and important publications of criticism and discussion. In quantity the purchases have ranged from significant single titles, such as Migne's *Patrologia* (Latin and Greek) and the *Monumenta Germaniae Historica*, to special libraries containing many thousands of volumes. Among the important special collections is the Guido Mazzoni library of Italian and comparative literature containing 23,000 volumes and 67,000 pamphlets which came to the University in 1948. Others include a Peruvian library of about seven thousand books and manuscripts; a library of several thousands volumes dealing with Brazil; an Ecuadorian collection of about two thousand volumes; the Robertson library of Philippiniana; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a special group of five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; a collection of more than five thousand seventeenth-

and eighteenth-century British pamphlets; special collections of manuscripts; annotated copies and first editions of Byron, Coleridge, and Emerson; a collection of material on the Fourier movement; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history, and of the Trent Collection of Walt Whitman books and manuscripts.

#### PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials is clearly recognized, and a comprehensive collection of this material has been assembled. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected in co-operation with the University of North Carolina. A representative collection of European public documents has been secured. Among them are the *British Parliamentary Papers* (since 1925), *Compendar of State Papers*, the *Acts of the Privy Council*, *Hansard's Debates*, the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française*, the *Bulletin des Lois de la République Française*, the *Reichsgesetzblatt*, the *Verhandlungen des Reichstages*, the *Atti* of the Italian Parliament, the *Diario* of the Spanish Cortes. The public documents of the Latin-American countries, especially Argentina, Bolivia, Brazil, Chile, Ecuador, Peru, and Uruguay form one of the strongest units of the Library.

Under this heading should be mentioned also the Library of Professor Louis Strisower, sometime President of the Institut de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

#### PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has the publications of many of the European academies, containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and faculty. The sets comprise over four thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen*; *Heidelberger Akademie der Wissenschaften*; *Akademie der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia nazionale dei lincei* (Rome); *Accademia pontificia dei nuova lincei* (Rome); *Real academia española* (Madrid); *Academia de la historia* (Madrid); *Akademia nauk* (Leningrad); *Dansk videnska bernes selskab* (Copenhagen); *Norsk videnskapsakademi i Oslo*; *Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels).



## NEWSPAPERS

The Newspaper Collection of the Library contains about 12,500 volumes and 1,600 rolls of microfilm. Most of the states of the Union are represented, although a large percentage of the papers are from the Atlantic seaboard—about fifty per cent representing the South and thirty per cent the Northeast. Of the 18th century titles, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Georgia, Virginia, North Carolina and South Carolina. The collection of 19th century New England papers is strong, but especially extensive are the Library's holdings of North Carolina, South Carolina, and Virginia newspapers for the Ante-Bellum and Civil War periods. The years of World War I are covered by twenty-eight fairly complete files. Foreign newspapers include *The (London) Times* from 1785, and about a dozen virtually complete runs of European and Latin-American papers from the 1920's and early 1930's. The current subscription list contains seventy papers, about one-half of which are foreign.

## MANUSCRIPTS

The manuscript collection now contains more than one million items relating chiefly to the South Atlantic region. Most numerous are records of military, social, and economic life in the Confederate period, including letters, diaries, rosters, military reports, statutes of the Confederate Congress, court records, and papers of various departments of the Confederate Government. Outstanding among the many papers providing a well-rounded picture of life in the South during the nineteenth century are original census returns of Georgia, Kentucky, Louisiana, and Tennessee for 1850 and 1860. The collection, most extensive in the field of history, contains information on all phases of social and economic life as well as politics. Numerous large collections bear particularly on the history of Alabama, Georgia, North Carolina, South Carolina, and Virginia. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, David Campbell, Robert Carter, Clement C. Clay, Henry Clay, William H. Crawford, John J. Crittenden, Jefferson Davis, Nathanael Greene, Andrew Jackson, Robert E. Lee, Alfred T. Mahan, Alexander H. Stephens, and others. For the later period the papers of Furnifold W. Simmons and Josiah W. Bailey, senators from North Carolina, are significant. The field of American literature is represented by papers of Thomas Holley Chivers, John Esten Cooke, Clara V. Dargan, Paul Hamilton Hayne, George Frederick Holmes, Alexander B. Meek, Thomas Nelson Page, Augustin L. Taveau, and Walt Whitman. Among the non-Southern materials there are interesting groups of papers relating to George Moore, the Rossettis, Robert Southey, and Tennyson. Of the medieval manuscripts, consisting chiefly of lectionaries and copies of the New Testament, a 13th century New Testament in Greek, and a Greek liturgical scroll of the Byzantine Empire are noteworthy. The Library has recently acquired the extensive official files of the Socialist Party of America extending from 1901 to 1938; and a col-

lection of the papers of George Holyoake, English cooperator and secularist of the 19th century.

A *Guide to the Manuscript Collections in the Duke University Library*, which describes the papers comprising the collection in 1942, was issued in 1947 as Series 27 and 28 of the *Historical Papers of the Trinity College Historical Society*. This index was prepared by Nannie M. Tilley, then curator of manuscripts, and her assistant, Noma Lee Goodwin.

#### EXCHANGE PRIVILEGES WITH THE LIBRARY OF THE UNIVERSITY OF NORTH CAROLINA

The libraries of Duke University and of the University of North Carolina have arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other. Books are secured on loan for students and faculty through a delivery service which operates between the libraries every other day. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains 515,000 volumes, besides a large collection of manuscripts relating to Southern history. Under this arrangement 1,450,000 volumes are available to students in the combined libraries.

#### SCIENCE LABORATORIES BIOLOGICAL LABORATORIES

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, five animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, mycology, anatomy, embryology, endocrinology, entomology, forest soils, and wood anatomy and properties. A 300-acre arboretum is being developed adjacent to the campus with Dr. E. S. Harrar in charge. A green house gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium, and Dr. J. R. Bailey is Curator of the Zoological Museum. On the East Campus, laboratories are provided for undergraduate women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work are available.

The Duke Forest, situated in the Piedmont region, between the mountains and the coastal plain, gives easy access to a varied flora and fauna; and its streams provide excellent collecting grounds. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, cypress, and several species of insect-catching plants. Among the animals are a varied assortment which range from marine to mountain species, including small game.

The Duke Marine Laboratory at Beaufort, North Carolina, provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Fish and Wildlife Service. Dr. C. G. Bookhout is Chairman of the Executive Committee for the Laboratory; Dr. Harold J. Humm is Resident Director.

#### PHYSICAL LABORATORIES

A new physics building has just been completed. It has 62,500 square feet of floor space, and is of the most modern type.

In addition to the usual lecture halls and elementary laboratories, there are special laboratories for work in electrical measurements, electronics, microwaves, optics, atomic physics, and mechanics. A new laboratory for training in radioactive measurements has recently been added.

The research laboratories contain the following special equipment: a new 21 ft. concave grating and other instruments for visible, ultraviolet, infrared, and Raman spectra are available for research in spectroscopy. Extensive and well equipped laboratories are provided for research in microwaves and microwave spectroscopy in both the centimeter and millimeter range. New type crystal counters, proportional counters, and ion chambers are used for cosmic ray research.

The department has available, in addition to University appointments, a number of research fellowships for work under government contracts and from grants by industry and scientific foundations.

The new physics building contains also a departmental library, a liquid air plant, and shop facilities. The main shop is staffed by four instrument mechanics, two electronic technicians, and a glassblower. There is also a separate shop for use of graduate students.

#### CHEMICAL LABORATORIES

Graduate work in chemistry is carried on in a modern building with a floor area of about 57,000 square feet. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, a number of specially designed rooms are available for present or future research, such as a photographic room, constant temperature room, distillation room, and rooms equipped for dielectric constant and magnetic measurements.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

#### MEDICAL SCHOOL

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. The Departments of Anatomy, Bacteriology and Immunology, Biochemistry and Nutrition, and Physiology and Pharmacology offer certain courses and research facilities to students in the Graduate School of Arts and Sciences. The use of the Duke Hospital Library is available to all graduate students.



### DUKE FOREST

The Duke Forest consists of approximately eight thousand acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region and composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region. Through placing the Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry.

The proximity of the Forest to the laboratories, greenhouses, and library facilities of the University provides an excellent opportunity for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, forest entomology, and forest pathology, is well under way. Several members of the Botany and Zoology staffs are also engaged in research in the Duke Forest.

For additional information see the *Bulletin of the School of Forestry*.

### ENCOURAGEMENT OF RESEARCH

The President of the University appoints annually a University Council on Research. The members of this Council are chosen from the Faculties of the Schools of Medicine and of Law, the Divinity School, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for subsidies to be used in the following fiscal year to aid them in carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books, and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

### SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for special lectures of value to graduate students interested in various fields of knowledge. The Woman's College Lecture Series brings other guests to the campus. In addition to these lectures, a number of distinguished speakers appear each year on the programs of various schools and departments of the University.

Among the guest lecturers during the academic year 1948-49 were A. P. Sloan, Jr., Chairman of the Board of the General Motors Corporation, and Andre Maurois, noted writer.

### THE UNIVERSITY PRESS

In 1897 Trinity College began sponsoring the publication of "The Papers of the Trinity College Historical Society," which was distributed to members of the Society and by exchange to other institutions. This series was the first publishing venture of the College. In 1902, the 9019, an honor scholastic society on the campus, founded *The South Atlantic Quarterly*, which is now published by the Press.



In 1921 the Trinity College Press was established to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. In 1925, with the acceptance of the benefaction of James B. Duke, Trinity College became one of the undergraduate colleges of Duke University, and the following year the University Press was organized to succeed the Trinity College Press.

One of the first steps of the new organization was to revive *The Hispanic American Historical Review*, which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption, and its mission has been supplemented by many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World. In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This journal was followed in 1931 by *Ecological Monographs*, a quarterly sponsored by the Ecological Society of America, to take care of papers too long for inclusion in *Ecology*, which began to appear under the auspices of the Press in 1948. *Character and Personality*, since 1945 the *Journal of Personality*, was founded in 1932 as a medium for the publication of studies in fields related to this phase of psychology. In 1935 the Press started the publication of the *Duke Mathematical Journal*, with the co-operation of the Mathematical Association of America, and in 1937 *The Journal of Parapsychology* for the publication of the results of research in extra-sensory perception and related topics. The Law School of Duke University publishes *Law and Contemporary Problems*, a quarterly presenting in each issue a symposium treating the legal, economic, and other social-science aspects of current problems. The faculty of the Law School also edits *The Journal of Legal Education*, which is the official publication of the Association of American Law Schools.

Besides its books, monographs, and regular quarterly publications the Press issues "Contributions to Psychological Theory" and "Duke University Research Studies in Education," the latter sponsored by the Department of Education of the University. It publishes also the *Bulletin* of the University Marine Laboratory at Beaufort, North Carolina.

Since its organization the Press has offered to the public the products of scholarly research to the number of more than one hundred and seventy-five volumes. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty and alumni, a great number of titles by authors without a connection with the University have been issued under the imprint of the Press.

In the broadest sense, the policy of the Press is to make available to the public any scholarly work which, because of the merit of its contents, its style, and its general value, deserves publication, though special attention is given to works in domains of knowledge cultivated by the University and to works pertaining to the region south of the Potomac.

## COURSES OF INSTRUCTION

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*This is a condensed description of courses. For a full description, see Bulletin of the Graduate School.*

*Certain undergraduate courses are open to graduate students with the approval of the Department. See the Bulletin of Undergraduate Instruction.*

### AESTHETICS, ART, AND MUSIC

PROFESSOR KATHARINE GILBERT, CHAIRMAN—100 ASBURY BUILDING; ASSISTANT PROFESSOR MARKMAN

No graduate degree is offered in this department, but the following courses are suggested as possible minors for students majoring in history, literature, philosophy, religion, psychology, or sociology, or in any other interested departments.

- |   |                             |
|---|-----------------------------|
| 201-202. The Philosophy of Art.—6 s.h.              | PROFESSOR GILBERT           |
| 213-214. History of Aesthetics.—6 s.h.              | PROFESSOR GILBERT           |
| 215. Religious Art of the Ancient Near East.—3 s.h. | ASSISTANT PROFESSOR MARKMAN |
| 216. Religious Art of the Classical World.—3 s.h.   | ASSISTANT PROFESSOR MARKMAN |

### DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSORS CLARK, ROGERS, AND STINESPRING; ASSISTANT PROFESSORS ROSE, TRUESDALE, AND WAY

#### GREEK

FOR SENIORS AND GRADUATES

- |   |                               |
|---|-------------------------------|
| 201-202. Greek Tragedy.—6 s.h.  | ASSISTANT PROFESSOR TRUESDALE |
| 203-204. Homer.— <i>Odyssey</i> . Pindar and Bacchylides. 6 s.h.                                  | ASSISTANT PROFESSOR TRUESDALE |
| 205-206. Greek Historians.—6 s.h.   | ASSISTANT PROFESSOR ROSE      |
| 207-208. Greek Orators.—6 s.h.  | ASSISTANT PROFESSOR WAY       |
| 209-210. Plato.— <i>Symposium</i> , <i>Protagoras</i> , and parts of the <i>Republic</i> . 6 s.h. | ASSISTANT PROFESSOR WAY       |
| 211-212. Aristophanes.—6 s.h.   | ASSISTANT PROFESSOR TRUESDALE |
| (Only one of the six courses listed above is offered each year.)                                  |                               |
| 243. Athenian Topography.—3 s.h.  | ASSISTANT PROFESSOR WAY       |
| 244. Greek Epigraphy.—3 s.h.  | ASSISTANT PROFESSOR WAY       |
| 245. Greek Dialects.—3 s.h.   | ASSISTANT PROFESSOR WAY       |
| 246. Greek Historical Inscriptions.—3 s.h.  | ASSISTANT PROFESSOR WAY       |
| 247-248. Greek Archaeology.—6 s.h.  | ASSISTANT PROFESSOR WAY       |
| (Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)       |                               |
| 257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—3 s.h.      | PROFESSOR ROGERS              |

## FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in *Aristophanes* (301-302), *The Greek Historians* (303-304), *The Attic Orators* (305-306), and *The Greek Tragic Poets* (307-308). These run through a cycle of four years. In 1949-50 the work will be: 307-308. *The Greek Tragic Poets*.—6 s.h.

*Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology, and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

## LATIN AND ROMAN STUDIES

## FOR SENIORS AND GRADUATES

201. Roman Fiction.

202. Latin Christian Writers.

203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—6 s.h.

205-206. Roman Drama: Plautus, Terence, Seneca.—6 s.h.

207-208. Roman Philosophy.

209-210. Vulgar Latin: Introduction to Romance Philology.

211-212. Roman Oratory.—6 s.h.

PROFESSOR ROGERS

215. Introduction to Roman Art and Archeology.

216. Topography and Monuments of Ancient Rome.

251-252. Roman Life.

258. Social and Cultural History of the Graeco-Roman World.—3 s.h.

PROFESSOR ROGERS

281-282. Roman Historical Literature.

283-284. Roman Law.—6 s.h.

PROFESSOR ROGERS

## FOR GRADUATES

309-310. Sight Reading and Composition.—6 s.h.

ASSISTANT PROFESSOR ROSE

311-312. Latin Epigraphy.—6 s.h.

PROFESSOR ROGERS

**Seminars:** Various authors or historical periods are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: *Catullus* (301-302), *Roman Historians* (331-332), *Roman Provincial Administration* (341-342), *The Reign of Tiberius* (343-344), *Martial* (351-352), *Horace* (361-362), *Lucretius* (371-372), and *Cicero's Public Career* (391-392). The seminar planned for 1949-50 is:

331-332. *Roman Historians*.—6 s.h.

PROFESSOR ROGERS

## LINGUISTICS

## FOR GRADUATES

375-376. Greek and Latin Linguistics.—6 s.h. ASSISTANT PROFESSOR ROSE

385-386. Elementary Sanskrit.—6 s.h. ASSISTANT PROFESSOR ROSE

## SEMITICS

## FOR SENIORS AND GRADUATES

- 201-202. First Hebrew.—6 s.h.  
 205-206. Elementary Arabic.—6 s.h. PROFESSOR STINESPRING  
 [Not offered in 1949-50]  
 207-208. Second Hebrew.—6 s.h. PROFESSOR STINESPRING

## FOR GRADUATES

304. Aramaic.—3 s.h. PROFESSOR STINESPRING  
 305. Third Hebrew.—3 s.h. PROFESSOR STINESPRING  
 309. History of the Ancient Near East.—3 s.h. PROFESSOR STINESPRING  
 [Not offered in 1949-50]

## RELATED COURSES IN OTHER DEPARTMENTS

- Philosophy 217. Philosophy of Aristotle.—3 s.h.  
 ASSOCIATE PROFESSOR McLARTY  
 Religion 217. The New Testament in Greek.—3 s.h.  
 ASSISTANT PROFESSOR YOUNG  
 Religion 218. Galatians and I Corinthians.—3 s.h. PROFESSOR CLARK  
 Religion 220. I Peter and the Gospel of John.—3 s.h. PROFESSOR CLARK  
 [Not offered in 1949-50]  
 Religion 313. The Apostolic Fathers.—3 s.h. PROFESSOR CLARK  
 Religion 316. Hellenistic Religions at the Beginning of the Christian Era.  
 —3 s.h. PROFESSOR CLARK  
 Religion 318. Text of New Testament.—3 s.h. PROFESSOR CLARK  
 [Not offered in 1949-50]

## BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSOR KRAMER,  
 DIRECTOR OF GRADUATE STUDIES—04 BIOLOGY BUILDING; PROFESSORS  
 ADDOMS, HARRAR, OOSTING AND WOLF; ASSOCIATE  
 PROFESSORS ANDERSON AND PERRY

## FOR SENIORS AND GRADUATES

202. Genetics.—Prerequisites: One year of botany, zoology, or equivalent,  
 and college algebra. 4 s.h. ASSOCIATE PROFESSOR PERRY  
 203. Plant Cytology.—Prerequisite: one year of botany. 4 s.h.  
 ASSOCIATE PROFESSOR ANDERSON  
 204. Advanced Plant Anatomy.—Prerequisite: Botany 55 or equivalent.  
 4 s.h. PROFESSOR ADDOMS  
 216. Botanical Microtechnique.—Prerequisite: two semesters of botany.  
 4 s.h. ASSOCIATE PROFESSOR ANDERSON  
 221. Structure and Classification of Fungi.—Prerequisite: two semesters  
 of botany. 4 s.h. PROFESSOR WOLF  
 222. Physiology and Ecology of Fungi.—Prerequisite: Botany 221 or  
 equivalent. 4 s.h. PROFESSOR WOLF  
 225-226. Special Problems.—Credits to be arranged.  
 (a) Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF



- (b) Cytology. ASSOCIATE PROFESSOR ANDERSON  
 (c) Ecology. PROFESSOR OOSTING  
 (d) Genetics. ASSOCIATE PROFESSOR PERRY

(e) Morphology and Anatomy of Higher Plants.  
 PROFESSORS ADDOMS, HARRAR AND OOSTING

(f) Morphology and Taxonomy of Lower Groups. PROFESSOR BLOMQUIST

(g) Physiology. PROFESSORS ADDOMS AND KRAMER

(h) Plant Microchemistry. PROFESSOR ADDOMS

(i) Taxonomy of Higher Groups. PROFESSOR BLOMQUIST

252. Advanced Plant Physiology.—Prerequisite: Botany 151 or equivalent; organic chemistry recommended. 4 s.h. PROFESSOR KRAMER

255. Advanced Taxonomy.—Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h. PROFESSOR BLOMQUIST

256. Field Ecology.—4 s.h. PROFESSOR OOSTING

#### FOR GRADUATES

305. Plant Geography.—Prerequisite: Botany 156 or equivalent. 4 s.h.  
 PROFESSOR OOSTING

310. Structure and Classification of Bryophytes and Pteridophytes.—4 s.h.  
 PROFESSOR BLOMQUIST

311. Structure and Classification of Algae.—4 s.h.  
 PROFESSOR BLOMQUIST

341. Methods in Plant Physiology.—4 s.h. PROFESSOR KRAMER

342. Plant Microchemistry.—2 s.h. PROFESSOR ADDOMS

359-360. Research in Botany.—Credits to be arranged.  
 PROFESSORS ADDOMS, BLOMQUIST, HARRAR, KRAMER, OOSTING,  
 WOLF; ASSOCIATE PROFESSORS ANDERSON AND PERRY

397-398. General Botanical Seminar.—2 s.h.  
 PROFESSORS ADDOMS, BLOMQUIST, HARRAR, KRAMER, OOSTING,  
 WOLF; ASSOCIATE PROFESSORS ANDERSON AND PERRY

#### FOREST BOTANY

##### FOR SENIORS AND GRADUATES

224. Forest Pathology.—Prerequisites: Botany 1 and 2. 4 s.h.  
 PROFESSOR WOLF

253. Dendrology.—Prerequisite: one year of botany. 3 s.h.  
 PROFESSOR HARRAR

#### RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in botany.

Forestry 257. Design of Forestry Experiments and Analysis of Data.—  
 5 s.h. PROFESSOR SCHUMACHER

Zoology 341. Historical and Philosophical Zoology.—2 s.h.  
 PROFESSOR HARGITT

## CHEMISTRY

PROFESSOR GROSS, CHAIRMAN—219 CHEMISTRY BUILDING; PROFESSOR VOSBURGH,  
DIRECTOR OF GRADUATE STUDIES—211 CHEMISTRY BUILDING; PROFESSORS  
BIGELOW, HAUSER, LONDON, AND SAYLOR; ASSOCIATE PROFESSORS  
BRADSHER, BROWN, HILL, AND HOBBS

## FOR SENIORS AND GRADUATES

206. **Elements of Theoretical Chemistry.**—4 s.h.  
PROFESSORS SAYLOR AND GROSS; ASSOCIATE PROFESSOR HOBBS
- 215-216 **Advanced Inorganic Chemistry.**—Prerequisites: Chemistry 70,  
151-152, and 261-262, or 206. 6 s.h.  
PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR HILL
233. **Instrumental Analysis.**—Prerequisites: Chemistry 70 and one year  
of physics. 2 s.h.  
ASSOCIATE PROFESSOR HOBBS; PROFESSORS SAYLOR AND VOSBURGH
234. **Physico-Chemical Methods of Analysis.**—Prerequisites: Chemistry  
70 and 261-262; the latter may be taken concurrently. 2 s.h.  
ASSOCIATE PROFESSOR HOBBS; PROFESSORS SAYLOR AND VOSBURGH
236. **Theory of Analytical Chemistry.**—Prerequisites: Chemistry 70 and  
261-262. 1 s.h.  
PROFESSOR VOSBURGH
251. **Qualitative Organic Analysis.**—Prerequisites: Chemistry 70 and 151-  
152. 2 or 3 s.h.  
PROFESSOR HAUSER
252. **Advanced Organic Preparations.**—Prerequisite: Chemistry 151-152.  
1 or 2 s.h.  
ASSOCIATE PROFESSOR BROWN AND PROFESSOR BIGELOW
- 253-254. **Advanced Organic Chemistry.**—Prerequisites: Chemistry 70 and  
151-152. 4 s.h.  
PROFESSORS BIGELOW AND HAUSER
- 261-262. **Physical Chemistry.**—Prerequisites: Chemistry 70, 151-152,  
Physics 51-52 or 1-2 and Mathematics 51-52 or equivalent. 6 s.h.  
ASSOCIATE PROFESSOR HOBBS; PROFESSORS GROSS AND SAYLOR
- 265-266. **Chemical Physics. Statistical Theory.**—6 s.h. PROFESSOR LONDON
- 267-268. **Chemical Physics. Quantum Theory of Atomic and Molecular  
Structure.**—6 s.h. PROFESSOR LONDON
271. **Introduction to Research.**—1 s.h.  
PROFESSORS BIGELOW, GROSS, AND VOSBURGH
- 273-274. **Seminar.**—2 s.h.  
PROFESSORS BIGELOW, GROSS, HAUSER, SAYLOR, AND VOSBURGH;  
ASSOCIATE PROFESSORS BRADSHER, BROWN, HILL, AND HOBBS
- 275-276. **Research.**—3 or 6 s.h.  
PROFESSORS BIGELOW, GROSS, HAUSER, LONDON, SAYLOR, AND VOSBURGH;  
ASSOCIATE PROFESSORS BRADSHER, BROWN, HILL, AND HOBBS

## FOR GRADUATES

303. **Thermodynamics.**—3 s.h. PROFESSORS SAYLOR, GROSS, AND VOSBURGH
304. **Topics in Advanced Physical Chemistry.**—Prerequisite: Chemistry  
261-262. 3 s.h.  
ASSOCIATE PROFESSORS HOBBS AND HILL;  
PROFESSORS GROSS AND SAYLOR
350. **Organic Reactions.**—Prerequisites: Chemistry 251 and 253. 2 s.h.  
ASSOCIATE PROFESSOR BRADSHER
- 351-352. **Advanced Synthetic Organic Chemistry.**—2 s.h.  
PROFESSORS BIGELOW AND HAUSER

**363-364. Advanced Physical Chemistry.**—Prerequisites: Chemistry 261-262 and 303, or equivalent. 4 s.h.

PROFESSORS GROSS, SAYLOR AND VOSBURGH; ASSOCIATE  
PROFESSORS HILL AND HOBBS

#### RELATED COURSES IN OTHER DEPARTMENTS BIOCHEMISTRY

**M241. General Biochemistry.**—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry, and at least one year of college biology. 8 s.h.

DR. PERLZWEIG AND STAFF

**M242. Biochemical Preparations.**—Prerequisite: Biochemistry M241. 2, 3, 4 s.h.

DRS. PERLZWEIG, NEURATH, AND HANDLER

**M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.**—4 s.h.

DR. NEURATH

**M341. Pathological Chemistry.**—Prerequisites: Biochemistry M241 and Physiology M261-2.

DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

**M343. Immunochemistry.**—2 s.h.

DRS. MARTIN AND NEURATH

**M363-364. Advanced Seminar in Nutrition.**—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. 4 s.h.

#### ECONOMICS

PROFESSOR HOOVER, CHAIRMAN—115 PHYSICS BUILDING; PROFESSOR SPENGLER,  
DIRECTOR OF GRADUATE STUDIES—304 GRAY BUILDING; PROFESSORS BLACK,  
DE VYVER, HUMPHREY, RATCHFORD, SMITH, AND VON BECKERATH;  
ASSOCIATE PROFESSORS ALLEN AND SIMMONS

#### FOR SENIORS AND GRADUATES

**204. Advanced Money and Banking.** ASSOCIATE PROFESSOR SIMMONS

**215. Economic Systems.**—3 s.h. PROFESSOR HOOVER

**216. Economic Functions of the State.**—Prerequisite: Economics 215 or its equivalent. 3 s.h. PROFESSOR HOOVER

**217. Population Problems and Resources.**—3 s.h. PROFESSOR SPENGLER

**218. Business Cycles.**—3 s.h. PROFESSOR HUMPHREY

**231. The Economic History of Europe.**—3 s.h. PROFESSOR SMITH

**233. State and Local Finance.**—3 s.h. PROFESSOR RATCHFORD

**234. Federal Finance.**—3 s.h. PROFESSOR RATCHFORD

**236. Taxation and Government Finance.**—3 s.h. PROFESSOR RATCHFORD

**237-238. Statistical Methods.**—Prerequisite: Economics 138 or consent of the instructor. 6 s.h. ASSOCIATE PROFESSOR HANNA

**241-242. Value and Distribution.**—6 s.h. PROFESSOR SPENGLER

**245. Problems of Modern Industrialism.**—3 s.h. PROFESSOR VON BECKERATH

**256. Labor Legislation.**—3 s.h. PROFESSOR DE VYVER

**260. Social Insurance.**—3 s.h. PROFESSOR DE VYVER

**265. International Trade and Finance.**—3 s.h. ASSOCIATE PROFESSOR ALLEN

**268. Competitive versus Monopolistic Enterprise.**—3 s.h. PROFESSOR VON BECKERATH

275-276. **Advanced Industrial Accounting and Management.**—Courses 57-58 and 105 are ordinarily prerequisites for this course. 5 s.h.

PROFESSOR BLACK

#### FOR GRADUATES

304. **Seminar in Money and Banking.**—3 s.h.

ASSOCIATE PROFESSOR SIMMONS

311-312. **History of Political Economy.**—6 s.h.

PROFESSOR SPENGLER

313-314. **Seminar in Economic Theory.**—Prerequisite: Economics 241-242 or its equivalent. 6 s.h.

PROFESSOR HOOVER

317. **Seminar in Population Problems.**—3 s.h.

PROFESSOR SPENGLER

318. **General Seminar in Economics.**—No credit.

STAFF

319. **Seminar in the Theories and Problems of Economic Change.**—3 s.h.

PROFESSOR SPENGLER

320. **Seminar in Business Cycles.**—3 s.h.

PROFESSOR HUMPHREY

330. **Seminar in Public Finance.**—3 s.h.

PROFESSOR RATCHFORD

331. **Research in Economic History: A Seminar.**—3 s.h.

PROFESSOR SMITH

343. **Seminar in Financial Organization.**—3 s.h.

PROFESSOR RATCHFORD

355. **Seminar in Labor Problems.**—3 s.h.

PROFESSOR DE VYVER

365. **Seminar in International Trade.**—3 s.h.

ASSOCIATE PROFESSOR ALLEN

368. **Seminar in Marketing Problems.**—3 s.h.

ASSOCIATE PROFESSOR LANDON

386. **Seminar in Latin-American Economic Problems.**—3 s.h.

PROFESSOR SMITH

389. **Seminar in Business and Government.**—3 s.h.

PROFESSOR HUMPHREY

#### RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

**Forestry 278. Economics of Forestry.**—3 s.h.

PROFESSOR THOMSON

**History 219-220. The History of the European Proletariat.**—6 s.h.

[Not offered in 1949-50]

PROFESSOR CARROLL

**Political Science 207. American Constitutional Law and Theory.**—3 s.h.

PROFESSOR WILSON

#### EDUCATION

\*PROFESSOR BROWNELL, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—1-C WEST

DUKE BUILDING; PROFESSORS CARR, CHILDS, AND PROCTOR; ASSOCIATE

PROFESSORS BOLMEIER, EASLEY, NAHM, RUDISILL,

AND STUMPF

#### ELEMENTARY EDUCATION

##### FOR SENIORS AND GRADUATES

207. **Technique of Teaching.**—3 s.h.

PROFESSOR CARR

[Not offered in 1949-50]

212. **Psychology of the Elementary School Subjects.**—3 s.h.

[Not offered in 1949-50]

PROFESSOR CARR

\* On June 1, 1949, Professor Proctor became Acting Chairman and Acting Director of Graduate Studies.



222. **The Curriculum and Materials of the Elementary Grades.**—3 s.h.  
[Not offered in 1949-50] PROFESSOR CARR
232. **Supervision of Instruction.**—3 s.h. PROFESSOR CARR
235. **The Nature, Function, and Reorganization of the Curriculum.**—3 s.h.  
PROFESSOR CARR

### EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

#### FOR SENIORS AND GRADUATES

- 208A. **Mental Tests and Applications.**—Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. 3 s.h. ASSOCIATE PROFESSOR EASLEY
- 208B. **Practicum.**—2 s.h. ASSOCIATE PROFESSOR EASLEY
209. **Statistical Methods Applied to Education.**—3 s.h.  
ASSOCIATE PROFESSOR STUMPF
210. **Introduction to Educational Research.**—3 s.h.  
ASSOCIATE PROFESSOR STUMPF
216. **Psychological Principles of Secondary Education.**—3 s.h.  
[Not offered in 1949-50] PROFESSOR CHILDS
217. **The Psychological Principles of Education.**—3 s.h.  
PROFESSOR BROWNELL
227. **The Psychology of Learning: Problems.**—3 s.h.  
[Not offered in 1949-50] ASSOCIATE PROFESSOR EASLEY
228. **The Psychology of Learning: Theoretical and Experimental.**—Prerequisite: course 227 or its equivalent. 3 s.h. ASSOCIATE PROFESSOR EASLEY  
[Not offered in 1949-50]
237. **Investigations in Reading.**—3 s.h. ASSOCIATE PROFESSOR RUDISILL
247. **Investigations in Arithmetic.**—Second semester. 3 s.h.  
PROFESSOR BROWNELL
258. **Educational Measurements.**—Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h.  
[Not offered in 1949-50]

#### FOR GRADUATES

- 307-308. **Seminar in Educational Psychology.**—4 s.h.  
[Not offered in 1949-50] PROFESSOR BROWNELL
318. **Educational Implications of Genetic Psychology.**—Prerequisite: six semester hours of psychology or educational psychology. 3 s.h.  
PROFESSOR BROWNELL
320. **Advanced Educational Statistics.**—3 s.h.  
[Not offered in 1949-50]
338. **Research in Reading.**—6 s.h. PROFESSOR CARR  
[Not offered in 1949-50]
339. **Research Course in Educational Tests.**—Prerequisite: the equivalent of course 258. 3 s.h.  
[Not offered in 1949-50]
348. **Research in Arithmetic.**—3 s.h. PROFESSOR BROWNELL  
[Not offered in 1949-50]

## HISTORY AND PHILOSOPHY OF EDUCATION

## FOR SENIORS AND GRADUATES

200. Introduction to the Philosophy of Education.—3 s.h.  
[Not offered in 1949-50]
204. The School as an Institution.—3 s.h. ASSOCIATE PROFESSOR BOLMEIER
214. History of Education in the United States.—3 s.h.  
[Not offered in 1949-50]
232. Supervision of Instruction.—3 s.h. PROFESSOR CARR
244. Studies in the Historical Development of Public School Administration.—3 s.h.  
[Not offered in 1949-50]
254. History of Secondary Education in the United States.—3 s.h.  
[Not offered in 1949-50] PROFESSOR PROCTOR
264. Recent Movements in American Education.—3 s.h.  
[Not offered in 1949-50]

## PUBLIC SCHOOL ADMINISTRATION

## FOR SENIORS AND GRADUATES

203. Principles of School Administration.—Prerequisite: Education 103 and 88, or six semester hours of equivalent work in education. 3 s.h.  
ASSOCIATE PROFESSOR BOLMEIER
213. Problems in the Organization and Administration of the Elementary School.—3 s.h. PROFESSOR PROCTOR
223. Administrative Pupil-Accounting.—3 s.h. PROFESSOR PROCTOR  
[Not offered in 1949-50]
234. Secondary School Organization and Administration.—3 s.h.  
ASSOCIATE PROFESSOR BOLMEIER
253. Legal Phases of School Administration.—3 s.h.  
[Not offered in 1949-50]

## FOR GRADUATES

323. Public School Finance.—3 s.h. ASSOCIATE PROFESSOR STUMPF
- 330-331. Public School Administration, Seminar I.—6 s.h.  
PROFESSORS CARR AND PROCTOR, AND ASSOCIATE  
PROFESSORS BOLMEIER AND STUMPF
343. State and County School Administration.—3 s.h. PROFESSOR PROCTOR
363. City School Administration.—3 s.h. PROFESSOR PROCTOR  
[Not offered in 1949-50]

## SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

## FOR SENIORS AND GRADUATES

205. Curriculum Problems in Secondary Education.—3 s.h.  
PROFESSOR CHILDS
206. Sociological Foundations of the Secondary School Subjects.—Prerequisites: six semester hours in education, including course 105. 3 s.h.  
PROFESSOR CHILDS
215. Educational and Vocational Guidance.—Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h.  
[Not offered in 1949-50] PROFESSOR CHILDS

**225. The Teaching of History and the Social Studies.—3 s.h.**

ASSOCIATE PROFESSOR MANCHESTER

**246. The Teaching of Mathematics.—3 s.h.**

PROFESSOR RANKIN

[Not offered unless justified by enrollment]

**NURSING EDUCATION****310. Nursing Education: Organization and Administration in Nursing Schools.—4 s.h.**

PROFESSOR NAHM

[Not offered in 1949-50]

**311. Nursing Education: Problems of Personnel Administration in Nursing.—4 s.h.**

PROFESSOR NAHM

[Not offered in 1949-50]

**312. Nursing Education: Research Problems.—4 s.h.**

PROFESSOR NAHM

[Not offered in 1949-50]

**METHODOLOGY OF RESEARCH****FOR GRADUATES****301. Methods of Educational Research: Seminar.—3 s.h.**

PROFESSORS BROWNELL, CARR, CHILDS, AND PROCTOR

**RELATED COURSES IN OTHER DEPARTMENTS**FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION,  
AND SECONDARY EDUCATION**Philosophy 231-232. The Philosophy of Science, I, II.—3 s.h. each semester.**

ASSOCIATE PROFESSOR LEONARD

**Philosophy 242. Scientific Methodology.—3 s.h.**

ASSOCIATE PROFESSOR LEONARD

**Psychology 206. Social Psychology.—3 s.h.****Psychology 207. Psychology of Memory, Thinking, Perceiving.—3 s.h.**

PROFESSOR ZENER

**Psychology 209. Experimental Methods in Human Psychology.—4 s.h.**

PROFESSOR ZENER

**Psychology 212. Physiological Psychology.—3 s.h.**

PROFESSOR ZENER

**Psychology 215. Developmental Psychology.—3 s.h.**

PROFESSOR ADAMS

**Psychology 226. Psychology: Historical and Theoretical.—3 s.h.**

PROFESSOR ZENER

**Psychology 306. Seminar in Child Psychology.—2 or 3 s.h.**

PROFESSOR ADAMS

**Psychology 309. Theory of Learning.—3 s.h.**

PROFESSOR ADAMS

[Not offered in 1949-50]

**Psychology 310. Seminar: Selected Problems in the Dynamics of Behavior.**

PROFESSOR ZENER

—3 s.h.

**Sociology 249. Child Welfare.—3 s.h.**

PROFESSOR JENSEN

**Sociology 381. Principles of Sociology.—3 s.h.**

PROFESSOR JENSEN

[Not offered in 1949-50]

**Sociology 382. History of Sociological Theory.—3 s.h.**

PROFESSOR JENSEN

**FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION****Economics 217. Population Problems and Resources.—3 s.h.**

PROFESSOR SPENGLER

- Economics 230. Public Debts in the United States.—3 s.h. PROFESSOR RATCHFORD
- Economics 233. State and Local Finance.—3 s.h. PROFESSOR RATCHFORD
- Political Science 209. State and Local Government in the United States.—3 s.h. PROFESSOR RANKIN
- Political Science 230. American Political Institutions.—3 s.h. PROFESSOR RANKIN
- Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN
- Political Science 292. Municipal Administration.—3 s.h. PROFESSOR RANKIN
- Sociology 233. Rural Sociology.—3 s.h. PROFESSOR THOMPSON
- Sociology 235. Urban Sociology.—3 s.h. PROFESSOR THOMPSON
- Sociology 237. Community and Society.—3 s.h. PROFESSOR THOMPSON
- FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION
- History 209-210. Constitutional History of the United States, 1763-1860.—6 s.h.  
[Not offered in 1949-50]
- Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY
- Philosophy 208. Political Philosophy.—3 s.h. PROFESSOR NEGLEY
- Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR PATTERSON
- Religion 395. Religious Thought in Colonial America.—3 s.h. PROFESSOR SMITH
- Religion 396. American Religious Thought in the Nineteenth Century.—3 s.h. PROFESSOR SMITH
- Sociology 286. Social Ethics.—3 s.h. PROFESSOR HART
- Sociology 381. Principles of Sociology.—3 s.h. PROFESSOR JENSEN  
[Not offered in 1949-50]
- Sociology 382. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

### ENGLISH

PROFESSOR IRVING, ACTING CHAIRMAN—265 WEST DUKE BUILDING; PROFESSOR BAUM, DIRECTOR OF GRADUATE STUDIES—402 LIBRARY; PROFESSORS BRINKLEY, GILBERT, GOHDES, AND HUBBELL; ASSOCIATE PROFESSORS LEARY, TALBERT, AND WARD

#### FOR SENIORS AND GRADUATES

- 201-202. Anglo-Saxon.—6 s.h. PROFESSOR BAUM  
[Not offered in 1949-50]
- 203-204. Chaucer.—6 s.h. PROFESSOR BAUM
- 205-206. Middle English.—6 s.h. PROFESSOR BAUM
- 215-216. Elizabethan Drama.—6 s.h. PROFESSOR GILBERT AND ASSOCIATE PROFESSOR TALBERT
217. Milton.—3 s.h. PROFESSOR GILBERT  
[To be offered in spring semester]
218. Spenser.—3 s.h. PROFESSOR GILBERT  
[Not offered in 1949-50]
- 219-220. The Eighteenth Century.—6 s.h. PROFESSOR IRVING



- 221-222. **English Literature of the Early Nineteenth Century.**—6 s.h.  
[Not offered in 1949-50]
- 223-224. **English Literature of the Later Nineteenth Century.**—6 s.h.  
PROFESSOR BAUM  
[Not offered in 1949-50]
227. **Literary Criticism.**—3 s.h. PROFESSOR GILBERT
- 229-230. **American Literature, 1800-1870.**—6 s.h. PROFESSOR HUBBELL
- 233-234. **American Literature since 1870.**—6 s.h. PROFESSOR GOHDES
235. **History of American Drama.**—3 s.h. ASSOCIATE PROFESSOR LEARY  
[Not offered in 1949-50]
237. **English Drama, 1642-1800.**—3 s.h. ASSOCIATE PROFESSOR WARD  
[Not offered in 1949-50]
239. **Shakespeare Problems.**—3 s.h. ASSOCIATE PROFESSOR TALBERT  
[Not offered in 1949-50]
241. **Studies in Dryden.**—3 s.h. ASSOCIATE PROFESSOR WARD  
[Not offered in 1949-50]
- 245-246. **Italian Writers in English Translation.**—6 s.h.  
[Not offered in 1949-50] VISITING PROFESSOR ORSINI
- 247-248. **American Literature to 1800.**—6 s.h. ASSOCIATE PROFESSOR LEARY  
[Not offered in 1949-50]
- 249-250. **English Literature in the Sixteenth Century.**—6 s.h.  
ASSOCIATE PROFESSOR TALBERT
- 251-252. **English Literature in the Seventeenth Century.**  
ASSOCIATE PROFESSOR WARD
- 269-270. **Southern Literature.**—6 s.h. PROFESSOR HUBBELL  
[269 will be offered in the spring semester.]

## FOR GRADUATES

303. **Coleridge.**—3 s.h. PROFESSOR BRINKLEY  
[Not offered in 1949-50]
304. **Studies in the Metaphysical Poets.**—3 s.h. PROFESSOR BRINKLEY  
[Not offered in 1949-50]
- 349-350. **Seminar Courses.**—6 s.h.
- (a) **Sixteenth and Seventeenth Centuries.**  
PROFESSOR GILBERT AND ASSOCIATE PROFESSOR WARD
- (b) **Eighteenth Century.** PROFESSOR IRVING
- (c) **Early Nineteenth Century.**
- (d) **Later Nineteenth Century.** PROFESSOR BAUM
- (e) **American Literature.** PROFESSORS HUBBELL, GOHDES AND  
ASSOCIATE PROFESSOR LEARY

[In 1949-50 (a), (b), and (e) will be offered; and (d) (3 s.h.) in the spring semester.]

- 359-360. **Research Courses.**—3 or 6 s.h. STAFF

## RELATED COURSES IN OTHER DEPARTMENTS

The attention of students in English is directed to the following courses:  
**German 201-202. Goethe.**—6 s.h.

- German 301-302. Gothic—Middle High German.—6 s.h.  
PROFESSOR VOLLMER
- Greek 201-202. Greek Tragedy.—6 s.h. ASSISTANT PROFESSOR TRUESDALE
- History 207-208. Social and Cultural History of the United States.—6 s.h.  
PROFESSOR ROBERT
- History 221-222. The Age of the Renaissance.—6 s.h.  
ASSOCIATE PROFESSOR NELSON
- History 337. Social and Economic Life of the Old South.—4 s.h.  
[Not offered in 1949-50] PROFESSOR SYDNOR
- Philosophy 201-202. The Philosophy of Art.—6 s.h. PROFESSOR GILBERT
- Philosophy 213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT
- Psychology 202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM
- Romance Languages 213, 214.—French Classicism.—6 s.h.  
PROFESSOR WALTON
- Romance Languages 215-216. The Modern French Novel.—6 s.h.  
PROFESSOR JORDAN
- Romance Languages 219. Old French.—3 s.h. PROFESSOR COWPER
- Romance Languages 232. Rousseau and the Beginnings of Romanticism.—  
6 s.h. PROFESSOR COWPER

### FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—FEW  
QUADRANGLE, HOUSE GG-010; PROFESSORS BEAL, COILE, HARRAR,  
KRAMER, SCHUMACHER, THOMSON, AND WOLF

#### FOR SENIORS AND GRADUATES

224. Forest Pathology.—Prerequisites: Botany 1 and 2, and Forestry 253,  
or equivalents. 4 s.h. PROFESSOR WOLF
231. Forest Entomology.—3 s.h. PROFESSOR BEAL
251. Sampling Methods in Forestry.—Prerequisite: Forestry S151. 2 s.h.  
PROFESSOR SCHUMACHER
252. Forest Mensuration.—Prerequisite: Forestry 251. 2 s.h.  
PROFESSOR SCHUMACHER
253. Dendrology.—Prerequisite: one year of botany. 3 s.h.  
PROFESSOR HARRAR
257. Design of Forestry Experiments and Analysis of Data.—5 s.h.  
PROFESSOR SCHUMACHER
258. Properties of Wood.—Prerequisites: one year of botany and Chem-  
istry 1 and 2, or equivalent. 3 s.h. PROFESSOR HARRAR
261. Forest Soils.—Prerequisites: Chemistry 1 and 2, and Physics 1, or  
equivalents; physical geology, mineralogy, petrology, and analytical chem-  
istry are also desirable. 3 s.h. PROFESSOR COILE
264. Silvics.—Desirable prerequisites: plant physiology, plant ecology, and  
Forestry 253 and 261, or equivalents. 3 s.h. PROFESSOR KORSTIAN
277. Forestry Policy.—2 s.h. PROFESSOR THOMSON
278. Economics of Forestry.—Prerequisite: at least one course in the prin-  
ciples of economics. 3 s.h. PROFESSOR THOMSON

## FOR GRADUATES

323-324. **Advanced Forest Pathology.**—Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

351-352. **Advanced Physiology of Forest Trees.**—Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged. PROFESSOR KRAMER

354. **Forest Soil Fertility.**—Prerequisites: Forestry 251 and 261, plant physiology, bacteriology and analytical chemistry. 3 s.h. PROFESSOR COILE

356. **Economic Forces in Forestry.**—Prerequisites: Forestry 278 or equivalent; courses in economic theory are desirable. 2 s.h. PROFESSOR THOMSON

357-358. **Research in Forestry.**

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.

PROFESSOR COILE

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.

e. **Forest Economics.**—Prerequisite: Forestry 278 or equivalent.

PROFESSOR THOMSON

f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 258 and 260, or equivalents. PROFESSOR HARRAR

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent.

PROFESSOR BEAL

## GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—205 PAGE;  
ASSOCIATE PROFESSOR SHEARS

201-202. **Goethe.**—6 s.h.

203-204. **Eighteenth Century.**—6 s.h.

PROFESSOR VOLLMER

205-206. **Middle High German.**—6 s.h.

PROFESSOR VOLLMER

207-208. **German Romanticism.**—6 s.h.

PROFESSOR VOLLMER

209-210. **Kleist, Grillparzer, and Hebbel.**—6 s.h.

211-212. **Heinrich Heine.**—6 s.h.

PROFESSOR VOLLMER

[Offered in 1949-50]

213-214. **Literature of the Empire, 1871-1914.**—6 s.h.

[Offered in 1949-50]

ASSOCIATE PROFESSOR SHEARS

## FOR GRADUATES ONLY

301-302. **Gothic—Middle High German.**—6 s.h.

PROFESSOR VOLLMER

303-304. **German Seminar.**

PROFESSOR VOLLMER

## RELATED COURSES IN OTHER DEPARTMENTS

The following courses in other departments are recommended to students, who are majoring in Germanics, as particularly valuable in building a proper background for Germanic studies:

(a) Graduate courses in literature or philology, offered by the ancient and modern language departments, to be selected after consultation with the Germanic Department.

(b) Graduate courses in history and philosophy, offered by those departments, to be selected after consultation with the Germanic Department.

## HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST  
DUKE BUILDING; PROFESSORS CARROLL, CLYDE, LANNING, ROBERT, AND  
SYDNOR; ASSOCIATE PROFESSORS CURTISS, MANCHESTER, NELSON,  
ROPP, AND WOODY; ASSISTANT PROFESSOR PARKER

## AMERICAN HISTORY

## FOR SENIORS AND GRADUATES

- 203-204. The United States, 1850-1900.—6 s.h.  
[Not offered in 1949-50] ASSOCIATE PROFESSOR WOODY
- 207-208. Social and Cultural History of the United States.—6 s.h.  
PROFESSOR ROBERT
- 209-210. Constitutional History of the United States, 1763-1860.—6 s.h.  
[Not offered in 1949-50]
- 215-216. Foreign Policy and Diplomacy of the United States.—6 s.h.  
PROFESSOR CLYDE
230. The Portuguese Empire and the Rise of Brazil.—3 s.h.  
ASSOCIATE PROFESSOR MANCHESTER
231. The Hispanic Colonies of the New World.—3 s.h.  
PROFESSOR LANNING
232. The Hispanic American Republics of the New World.—3 s.h.  
PROFESSOR LANNING
233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h.  
[Not offered in 1949-50] PROFESSOR LANNING
234. Political and Social Problems in the Hispanic American Republics.—3 s.h.  
[Not offered in 1949-50] PROFESSOR LANNING
- 263-264. American Colonial History and the Revolution, 1606-1783.—6 s.h.  
ASSOCIATE PROFESSOR WOODY
- 265-266. The Westward Movement in the United States.—6 s.h.  
[Not offered in 1949-50]

## FOR GRADUATES

315. Seminar in Southern History.—2 s.h. PROFESSOR SYDNOR
321. Seminar in the History of Spain and the Spanish-American Colonies.—2 s.h.  
PROFESSOR LANNING
336. The South in Federal Politics, 1789-1860.—4 s.h. PROFESSOR SYDNOR
337. Social and Economic Life of the Old South.—4 s.h.  
[Not offered in 1949-50] PROFESSOR SYDNOR

## EUROPE AND THE FAR EAST

## FOR SENIORS AND GRADUATES

- 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
- 219-220. The History of the European Proletariat.—6 s.h.  
[Not offered in 1949-50] PROFESSOR CARROLL
- 221-222. The Age of the Renaissance.—6 s.h.  
ASSOCIATE PROFESSOR NELSON



225-226. The Age of the Reformation.—6 s.h.

[Not offered in 1949-50]

ASSOCIATE PROFESSOR NELSON

227-228. The Napoleonic Empire and Its Aftermath.—6 s.h.

[Not offered in 1949-50]

ASSISTANT PROFESSOR PARKER

235. War in the Modern World.—3 s.h.

ASSOCIATE PROFESSOR ROPP

241-242. Nationalism and Revolutionary Movements in the Far East since 1900.—6 s.h.

[Not offered in 1949-50]

PROFESSOR CLYDE

261-262. Russia in the Twentieth Century.—6 s.h.

ASSOCIATE PROFESSOR CURTISS

#### FOR GRADUATES

305. Seminar in the History of England and the British Empire.—2 s.h.

PROFESSOR LAPRADE

317. Seminar in Recent European History.—2 s.h.

PROFESSOR CARROLL

325. British Nationality and Public Opinion.—4 s.h.

PROFESSOR LAPRADE

[Not offered in 1949-50]

327. Modern Phases of the English Constitution.—4 s.h.

PROFESSOR LAPRADE

343. Seminar in the History of American Foreign Relations and the Far East.—2 s.h.

PROFESSOR CLYDE

#### HISTORIOGRAPHY AND THE TEACHING OF HISTORY

##### FOR SENIORS AND GRADUATES

211. The Teaching of History and the Social Studies.—3 s.h.

ASSOCIATE PROFESSOR MANCHESTER

##### FOR GRADUATES

320. Historiography.—4 s.h.

ASSOCIATE PROFESSOR NELSON

329. Historiography of the South.—4 s.h.

ASSOCIATE PROFESSOR WOODY

[Not offered in 1949-50]

#### RELATED COURSES IN OTHER DEPARTMENTS

Economics 215. Economic Systems.—3 s.h.

PROFESSOR HOOVER

Economics 216. Economic Functions of the State.—3 s.h.

PROFESSOR HOOVER

Economics 231. Economic History of Modern Europe.—3 s.h.

PROFESSOR SMITH

Economics 311-312. History of Political Economy.—6 s.h.

PROFESSOR SPENGLER

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h.

PROFESSOR WILSON

Political Science 224. Modern Political Theory.—3 s.h.

PROFESSOR WILSON AND ASSOCIATE PROFESSOR HALLOWELL

Religion 309. History of the Ancient Near East.—3 s.h.

[Not offered in 1949-50]

PROFESSOR STINESPRING

Religion 395. Religious Thought in Colonial America.—3 s.h.

PROFESSOR SMITH

Religion 396. American Religious Thought in the Nineteenth Century.—3 s.h.

PROFESSOR SMITH

Sociology 382. History of Sociological Theory.—3 s.h.

PROFESSOR JENSEN

# MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN—201-I PHYSICS BUILDING; PROFESSOR ROBERTS,  
DIRECTOR OF GRADUATE STUDIES—201-I PHYSICS BUILDING; PROFESSORS  
CARLITZ, ELLIOTT, RANKIN, AND THOMAS; ASSOCIATE PROFESSOR  
DRESSEL

## FOR SENIORS AND GRADUATES

201. History of Mathematics.—Prerequisite: differential calculus. 3 s.h.  
PROFESSOR RANKIN
204. Teaching of Mathematics.—3 s.h. PROFESSOR RANKIN
226. Galois Theory of Equations.—Prerequisite: calculus. 3 s.h.  
PROFESSOR THOMAS
- 227-228. Theory of Numbers.—Prerequisite: calculus. 6 s.h.  
PROFESSOR CARLITZ
- 229-230. Algebraic Numbers.—Prerequisite: theory of equations. 6 s.h.  
PROFESSOR CARLITZ
- 235-236. Abstract Algebra.—Prerequisite: calculus. 6 s.h.  
PROFESSOR CARLITZ
250. Higher Geometry—3 s.h. PROFESSOR THOMAS
- 255-256. Projective Geometry.—Prerequisite: calculus. 6 s.h.  
PROFESSOR THOMAS
- 263-264. Theory of Nomograms.—Prerequisite: Mathematics 53; Mathe-  
matics 63 is desirable but not necessary as a prerequisite. 6 s.h.  
PROFESSOR THOMAS
- 271-272. Introductory Topology.—Prerequisite: calculus. 6 s.h.  
PROFESSOR ROBERTS
275. Probability.—Prerequisite: calculus. 3 s.h.  
ASSOCIATE PROFESSOR DRESSEL
- 285-286. Mathematical Analysis for Physicists.—Prerequisite: calculus.  
6 s.h. ASSOCIATE PROFESSOR DRESSEL
- 291-292. Theory of Functions.—Prerequisite: calculus. 6 s.h.  
PROFESSOR GERGEN

## FOR GRADUATES

- 301-302. Algebraic Geometry.—Prerequisite: Mathematics 255-256. 6 s.h.  
PROFESSOR THOMAS
- 325-326. Real Variable.—Prerequisite: Mathematics 291-292. 6 s.h.  
PROFESSOR GERGEN
- 331-332. Complex Variable.—Prerequisite: Mathematics 291-292. 6 s.h.
- 333-334. Analytic Theory of Numbers.—Prerequisite: Mathematics 291-  
292. 6 s.h. PROFESSOR CARLITZ
- 337-338. Existence Theorems.—Prerequisite: Mathematics 291-292. 6 s.h.  
PROFESSOR THOMAS
- 341-342. Integral Equations.—Prerequisite: differential equations and ad-  
vanced calculus. 6 s.h. PROFESSOR ELLIOTT
- 343-344. Ordinary Differential Equations.—Prerequisite: Mathematics 291-  
292. 6 s.h. PROFESSOR THOMAS

- 351-352. **Differential Geometry.**—Prerequisite: calculus. 6 s.h.  
PROFESSOR THOMAS
- 353-354. **Trigonometric Series.**—Prerequisite: Mathematics 325-325. 6 s.h.  
PROFESSOR GERGEN
- 371-372. **Dimension Theory.**—Prerequisite: Mathematics 271-272. 6 s.h.  
PROFESSOR ROBERTS
- 373-374. **Continuous Transformations.**—Prerequisite: Mathematics 271-272. 6 s.h.  
PROFESSOR ROBERTS
382. **Potential Theory.**—Prerequisite: Mathematics 325-326. 3 s.h.  
PROFESSOR GERGEN

### PHILOSOPHY

ASSOCIATE PROFESSOR LEONARD, EXECUTIVE OFFICER—3-I WEST DUKE BUILDING;  
PROFESSOR PATTERSON, DIRECTOR OF GRADUATE STUDIES—3-I WEST DUKE  
BUILDING; PROFESSORS GILBERT, NEGLEY, AND WIDGERY;  
ASSOCIATE PROFESSOR MCLARTY

#### FOR SENIORS AND GRADUATES

- 201-202. **The Philosophy of Art.**—6 s.h. PROFESSOR GILBERT
203. **Contemporary Ethical Theories.**—3 s.h. PROFESSOR NEGLEY
205. **The Philosophy of History.**—3 s.h. PROFESSOR WIDGERY
208. **Political Philosophy.**—3 s.h. PROFESSOR NEGLEY
- 209-210. **The Philosophy of Religion.**—6 s.h. PROFESSOR WIDGERY
211. **History of Ancient Philosophy.**—3 s.h. PROFESSOR PATTERSON
212. **History of Modern Philosophy.**—3 s.h. PROFESSOR PATTERSON
- 213-214. **History of Aesthetics.**—6 s.h. PROFESSOR GILBERT
217. **The Philosophy of Aristotle.**—Prerequisite: 93 or 211. 3 s.h.  
ASSOCIATE PROFESSOR MCLARTY
218. **Mediaeval Philosophy.**—3 s.h. PROFESSOR PATTERSON
223. **Contemporary Philosophy.**—3 s.h. PROFESSOR PATTERSON
231. **Philosophy of Science I.**—3 s.h. ASSOCIATE PROFESSOR LEONARD
232. **Philosophy of Science II.**—3 s.h. ASSOCIATE PROFESSOR LEONARD
236. **Oriental Philosophy I. Chinese Philosophy.**—3 s.h.  
PROFESSOR WIDGERY
238. **Oriental Philosophy II. Indian Philosophy.**—3 s.h.  
PROFESSOR WIDGERY
241. **Logic.**—3 s.h. ASSOCIATE PROFESSOR LEONARD
242. **Scientific Methodology.**—3 s.h. ASSOCIATE PROFESSOR LEONARD

#### FOR GRADUATES

- 301a-302a, 301b-302b. **Seminar in Philosophy.**—3 s.h. PROFESSOR WIDGERY
305. **Seminar: Spinoza.**—3 s.h. PROFESSOR GILBERT
307. **Seminar: Kant.**—3 s.h. PROFESSOR NEGLEY
308. **Seminar: Hegel.**—3 s.h. PROFESSOR GILBERT
- 331-332. **Seminar in Special Fields of Philosophy.**—3 s.h.
- (a) Logic; (aa) Philosophy of Science. ASSOCIATE PROFESSOR LEONARD

- (b) Ethics; (bb) Political Philosophy. PROFESSOR NEGLEY  
 (c) Aesthetics. PROFESSOR GILBERT  
 (d) Philosophy of Religion; (dd) History. PROFESSOR WIDGERY  
 (e) and (ee) History of Philosophy. PROFESSORS WIDGERY AND PATTERSON  
 341. Seminar: Problems of Political and Legal Philosophy.—3 s.h.  
 PROFESSOR NEGLEY

## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN—102 PHYSICS BUILDING; PROFESSOR NORDHEIM,  
 DIRECTOR OF GRADUATE STUDIES—103 PHYSICS BUILDING; PROFESSORS  
 HATLEY, GORDY, NEWSON, AND SPONER; ASSOCIATE PROFESSOR  
 SMITH; ASSISTANT PROFESSOR GREULING

- 201-202. Mechanics.—6 s.h. ASSOCIATE PROFESSOR SMITH  
 203-204. Electricity and Magnetism.—6 s.h. ASSOCIATE PROFESSOR SMITH  
 205. Spectroscopy.—4 s.h. PROFESSOR SPONER  
 207. Sound and Acoustics.—3 s.h. PROFESSOR NIELSEN  
 213-214. Contemporary Physics.—6 s.h. ASSISTANT PROFESSOR GREULING  
 217-218. Advanced Physics Laboratory.—2-6 s.h. THE STAFF  
 219. Introduction to Electronics.—4 s.h.  
 PROFESSOR GORDY OR ASSOCIATE PROFESSOR SMITH  
 220. Electron Circuit Analysis.—3 s.h.  
 PROFESSOR GORDY OR ASSOCIATE PROFESSOR SMITH  
 221-222. Introduction to Theoretical Physics.—8 s.h.  
 243. Elementary Nuclear Physics.—3 s.h. PROFESSOR NEWSON

## FOR GRADUATES

303. Thermodynamics.—3 s.h. PROFESSOR SPONER  
 305. Kinetic Theory of Matter.—3 s.h. PROFESSOR NIELSEN  
 307. Advanced Mechanics I.—3 s.h. PROFESSOR NORDHEIM  
 308. Advanced Mechanics II.—3 s.h. PROFESSOR NORDHEIM  
 315-316. Principles of Quantum Theory.—6 s.h. PROFESSOR NORDHEIM  
 318. Theory of Electricity and Magnetism.—3 s.h.  
 ASSISTANT PROFESSOR GREULING  
 319. Electrodynamics.—3 s.h. ASSISTANT PROFESSOR GREULING  
 320. Theory of Electrons.—3 s.h. ASSISTANT PROFESSOR GREULING  
 323. Theory of Atomic Spectra.—3 s.h. PROFESSOR SPONER  
 324. Theory of Molecular Spectra.—3 s.h. PROFESSOR SPONER  
 331. Microwave Theory and Application.—4 s.h. PROFESSOR GORDY  
 332. Microwave Spectroscopy.—3 s.h. PROFESSOR GORDY  
 340. Structure of Matter. PROFESSOR SPONER  
 341. Advanced Topics in Quantum Theory.—Prerequisite: Physics 315-  
 316. 3 s.h. PROFESSOR NORDHEIM



344. Advanced Nuclear Physics.—3 s.h. PROFESSOR NEWSON  
 351-352. Seminar.—2 s.h. STAFF  
 353-354. Thesis Seminar.—6 s.h. STAFF

## POLITICAL SCIENCE

PROFESSOR RANKIN, CHAIRMAN—104 LIBRARY; PROFESSOR COLE, DIRECTOR OF  
 GRADUATE STUDIES\*—315 LIBRARY; PROFESSORS WILSON AND VON BECK-  
 ERATH; ASSOCIATE PROFESSORS HALLOWELL AND VAN WAGENEN;  
 ASSISTANT PROFESSOR HANSON

## FOR SENIORS AND GRADUATES

207. American Constitutional Law and Theory.—3 s.h.  
 PROFESSORS WILSON AND RANKIN  
 209. State and Local Government in the United States.—3 s.h.  
 PROFESSOR RANKIN  
 211. Political Institutions of the Far East.—3 s.h.  
 [Not offered in 1949-50]  
 212. International Politics of the Far East.—3 s.h.  
 [Not offered in 1949-50]  
 221. International Public Organization.—3 s.h.  
 PROFESSOR WILSON AND ASSOCIATE PROFESSOR VAN WAGENEN  
 223. Political Thought to the Seventeenth Century.—3 s.h.  
 PROFESSOR WILSON  
 224. Modern Political Theory.—3 s.h.  
 PROFESSOR WILSON AND ASSOCIATE PROFESSOR HALLOWELL  
 225. Comparative Government.—3 s.h. PROFESSOR COLE  
 226. Comparative Government.—3 s.h. PROFESSOR COLE  
 227-228. International Law.—6 s.h. PROFESSOR WILSON  
 229. Recent and Contemporary Political Theory.—3 s.h.  
 ASSOCIATE PROFESSOR HALLOWELL  
 230. American Political Institutions.—3 s.h. PROFESSOR RANKIN  
 231. American Political Theory.—3 s.h. ASSOCIATE PROFESSOR HALLOWELL  
 235. The British Commonwealth.—3 s.h. PROFESSOR COLE  
 241-242. The Administrative Process.—6 s.h.  
 244. Administrative Law.—3 s.h.  
 252. Spanish-American Constitutionalism.—3 s.h.  
 [Not offered in 1949-50]  
 271. Sociopolitics and Capitalism.—3 s.h. PROFESSOR VON BECKERATH  
 291. Municipal Government.—3 s.h.  
 PROFESSOR RANKIN AND ASSISTANT PROFESSOR HANSON  
 292. Municipal Administration.—3 s.h.  
 PROFESSOR RANKIN AND ASSISTANT PROFESSOR HANSON  
 FOR GRADUATES  
 310. Seminar in State Government.—3 s.h. PROFESSOR RANKIN  
 311. Seminar in Far Eastern Politics.—3 s.h.  
 [Not offered in 1949-50]

\* On June 1, 1949, Professor Wilson became Director of Graduate Studies.

321. Seminar in Political Theory.—3 s.h.

ASSOCIATE PROFESSOR HALLOWELL

325. Seminar in Comparative Government.—3 s.h.

PROFESSOR COLE

328. Seminar in International Law.—3 s.h.

PROFESSOR WILSON

341. Seminar in Public Administration.—3 s.h.

#### RELATED COURSES IN OTHER DEPARTMENTS

Economics 215. Economic Systems.—3 s.h.

PROFESSOR HOOVER

Economics 216. Economic Functions of the State.—3 s.h.

PROFESSOR HOOVER

Economics 233. State and Local Finance.—3 s.h.

PROFESSOR RATCHFORD

Economics 234. Federal Finance.—3 s.h.

PROFESSOR RATCHFORD

Economics 237-238. Statistical Methods.—6 s.h.

ASSOCIATE PROFESSOR HANNA

Economics 265. International Trade and Finance.—3 s.h.

ASSOCIATE PROFESSOR ALLEN

History 215-216. Foreign Policy and Diplomacy of the United States.—6 s.h.

PROFESSOR CLYDE

History 217-218. Europe since 1870.—6 s.h.

PROFESSOR CARROLL

History 234. Political and Social Problems in the Hispanic American Republics.—3 s.h.

PROFESSOR LANNING

[Not offered in 1949-50]

History 261-262. Russia in the Twentieth Century.—6 s.h.

ASSOCIATE PROFESSOR CURTISS

Philosophy 208. Political Philosophy.—3 s.h.

PROFESSOR NEGLEY

Sociology 382. History of Sociological Theory.—3 s.h.

PROFESSOR JENSEN

#### PSYCHOLOGY

PROFESSOR ADAMS, CHAIRMAN—201 BIVINS HALL; PROFESSOR ZENER, DIRECTOR OF GRADUATE STUDIES—217A SCIENCE BUILDING; PROFESSORS DAI, KUDER, LUNDHOLM, AND RHINE; ASSOCIATE PROFESSORS BANHAM AND KOCH; ASSISTANT PROFESSOR REICHENBERG-HACKETT

##### FOR SENIORS AND GRADUATES

202. Psychology of Aesthetics.—3 s.h.

PROFESSOR LUNDHOLM

203. Dynamic Psychology: Conation and Our Conscious Life.—3 s.h.

PROFESSOR LUNDHOLM

204. Motivation and Learning.—3 s.h.

PROFESSOR ZENER AND ASSOCIATE PROFESSOR KOCH

206. Social Psychology.—3 s.h.

PROFESSOR ADAMS

207. Psychology of Memory, Thinking, Perceiving.—3 s.h.

PROFESSOR ZENER

209. Experimental Methods in Human Psychology.—4 s.h.

PROFESSOR ZENER

212. Physiological Psychology.—Prerequisites: courses in Neuro-anatomy and in Physiology (M204 and M261, or Zoology 324, or their equivalents). 3 s.h.

PROFESSOR ZENER

215. Developmental Psychology.—3 s.h. PROFESSOR ADAMS
219. Psychometrics.—3 s.h. ASSOCIATE PROFESSOR BANHAM
223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM  
[Offered in spring semester only]
226. Psychology: Historical and Theoretical.—3 s.h. PROFESSOR ZENER
236. Theoretical Psychology.—3 s.h. ASSOCIATE PROFESSOR KOCH
241. Introduction to the Rorschach Test.—3 s.h.  
ASSISTANT PROFESSOR REICHENBERG-HACKETT
265. Fundamental Statistical Procedures in Psychology.—3 s.h.  
PROFESSOR KUDER
266. Advanced Statistics of Psychological Investigation.—Prerequisite:  
Psychology 265 or its equivalent. 3 s.h. PROFESSOR KUDER

## FOR GRADUATES

302. Seminar.—3 s.h. PROFESSOR LUNDHOLM  
[Not offered in 1949-50]
- 303-304. Research.—2 or 3 s.h.  
PROFESSORS ADAMS, DAI, KUDER, LUNDHOLM, RHINE, AND  
ZENER; ASSOCIATE PROFESSORS BANHAM AND KOCH
306. Seminar in Child Psychology (Clinical).—2 or 3 s.h.  
PROFESSOR ADAMS
307. Seminar in Psychology of Personality.—3 s.h. PROFESSOR RHINE  
[Not offered in 1949-50]
309. Theory of Learning.—3 s.h. PROFESSOR ADAMS  
[Not offered in 1949-50]
310. Seminar: Selected Problems in the Dynamics of Behavior.—3 s.h.  
PROFESSOR ZENER
311. Seminar in Parapsychology.—3 s.h. PROFESSOR RHINE
331. Interviewing Methods of Case Study.—3 s.h.  
ASSOCIATE PROFESSOR BANHAM
332. Projective Techniques.—3 s.h. ASSOCIATE PROFESSOR BANHAM
335. Clinical Psychology Practicum.—Prerequisite: Psychology 219 or its  
equivalent. 3 to 6 s.h. PROFESSOR ADAMS
336. Psychological Diagnosis.—3 to 6 s.h. PROFESSOR ADAMS
341. Society, Culture and Behavior Disorders.—3 s.h. PROFESSOR DAI
342. Principles of Psychotherapy.—3 s.h. PROFESSOR DAI
371. Pre-School Behavior Problems.—Prerequisites: at least one course  
in child development, in mental measurement, and in abnormal psychology.  
3 s.h. ASSOCIATE PROFESSOR BANHAM  
[Offered in spring semester only]

## RELATED COURSES IN OTHER DEPARTMENTS

- Education 208A. Mental Tests and Applications.—3 s.h.  
ASSOCIATE PROFESSOR EASLEY
- Education 208B. Practicum.—2 s.h. ASSOCIATE PROFESSOR EASLEY
- Education 209. Statistical Methods Applied to Education.—3 s.h.  
ASSOCIATE PROFESSOR EASLEY

Education 218. Educational Implications of Genetic Psychology.—3 s.h.  
PROFESSOR BROWNELL

Education 227. The Psychology of Learning: Problems.—3 s.h.  
ASSOCIATE PROFESSOR EASLEY

Education 228. The Psychology of Learning: Theoretical and Experimental.—3 s.h.  
ASSOCIATE PROFESSOR EASLEY

Education 258. Educational Measurements.—3 s.h.

Education 317. The Psychological Principles of Education.—3 s.h.  
PROFESSOR BROWNELL

Philosophy 208. Political Philosophy.—3 s.h. PROFESSOR NEGLEY

Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR PATTERSON

Philosophy 231-232. Philosophy of Science.—6 s.h.  
ASSOCIATE PROFESSOR LEONARD

Philosophy 241. Logic.—3 s.h. ASSOCIATE PROFESSOR LEONARD

Philosophy 242. Scientific Methodology.—3 s.h.  
ASSOCIATE PROFESSOR LEONARD

Sociology 211. Peoples of the World.—3 s.h.  
ASSOCIATE PROFESSOR LABARRE

Sociology 212. Primitive Religion.—3 s.h. ASSOCIATE PROFESSOR LABARRE

Sociology 238. Race and Culture.—3 s.h. PROFESSOR THOMPSON

Sociology 243. Social Attitudes and Collective Behavior.—3 s.h.  
ASSOCIATE PROFESSOR SCHETTLER

Sociology 246. Public Opinion and Propaganda.—3 s.h.  
ASSOCIATE PROFESSOR SCHETTLER

Sociology 249. Child Welfare.—3 s.h. PROFESSOR JENSEN

Sociology 271. Social Pathology.—3 s.h. PROFESSOR JENSEN

Sociology 276. Criminology.—3 s.h. PROFESSOR JENSEN

Sociology 330. Seminar in Anthropology.—3 s.h.  
ASSOCIATE PROFESSOR LABARRE

Sociology 380. Seminar in Applied Sociology.—1 to 3 s.h.  
PROFESSOR JENSEN

Zoology 229. Endocrinology.—4 s.h.

Zoology 324. Advanced Physiology.—4 s.h. ASSOCIATE PROFESSOR WILBUR

Zoology 341. Historical and Philosophical Zoology.—2 s.h.  
PROFESSOR HARGITT

Zoology 351-352. Zoological Journal Club.—2 s.h. STAFF

Zoology 355-356. Seminar. STAFF

Medicine 261-262. Human Physiology (Neurophysiology).—8 s.h.

Medicine 204. Neuroanatomical Basis of Behavior.—3 s.h.  
DR. HETHERINGTON



## RELIGION

PROFESSOR SMITH, DIRECTOR OF GRADUATE STUDIES—302 DIVINITY SCHOOL;  
 PROFESSORS BOSLEY, CLARK, CUSHMAN, PETRY, SPENCE, AND STINE-  
 SPRING; ASSOCIATE PROFESSOR BEACH; AND ASSISTANT  
 PROFESSOR YOUNG

## FIELD I. BIBLICAL STUDIES

- 201-202. First Hebrew.—6 s.h. PROFESSOR STINESPRING
- 205-206. Arabic.—6 s.h. PROFESSOR STINESPRING  
 [Not offered in 1949-50]
- 207-208. Second Hebrew.—6 s.h. PROFESSOR STINESPRING
301. The Religious Thought of Post-Exilic Judaism.—Prerequisite: Old Testament 203-204. 3 s.h. ASSISTANT PROFESSOR YOUNG
304. Aramaic.—3 s.h. PROFESSOR STINESPRING  
 [Not offered in 1949-50]
305. Third Hebrew.—3 s.h. PROFESSOR STINESPRING
309. History of the Ancient Near East.—3 s.h. PROFESSOR STINESPRING  
 [Not offered in 1949-50]
310. Old Testament Prophecy.—3 s.h. PROFESSOR STINESPRING
217. The New Testament in Greek.—3 s.h. PROFESSOR CLARK
218. Galatians and I Corinthians.—3 s.h. PROFESSOR CLARK
220. I Peter and the Gospel of John.—3 s.h. PROFESSOR CLARK  
 [Not offered in 1949-50]
311. The Life and Teachings of Jesus.—Prerequisite: New Testament 213-214. 3 s.h. PROFESSOR CLARK
312. New Testament Theology.—3 s.h. ASSISTANT PROFESSOR YOUNG
313. The Apostolic Fathers.—3 s.h. PROFESSOR CLARK
314. Patristic Thought.—Prerequisite: New Testament 213-214. 3 s.h. ASSISTANT PROFESSOR YOUNG
316. Hellenistic Religions at the Beginning of the Christian Era.—3 s.h. PROFESSOR CLARK  
 [Not offered in 1949-50]
317. The Synoptic Gospels.—Prerequisite: a basic "Introduction" to the New Testament. 3 s.h. PROFESSOR CLARK
318. Text of New Testament.—3 s.h. PROFESSOR CLARK  
 [Not offered in 1949-50]

## RELATED COURSES IN OTHER DEPARTMENTS

- Greek 257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—3 s.h. PROFESSOR ROGERS
- Latin 258. Social and Cultural History of the Graeco-Roman World.—3 s.h. PROFESSOR ROGERS
- Aesthetics, Art, and Music 215. Religious Art of the Ancient Near East.—3 s.h. ASSISTANT PROFESSOR MARKMAN
- Aesthetics, Arts, and Music 216. Religious Art of the Classical World.—3 s.h. ASSISTANT PROFESSOR MARKMAN

## FIELD II. STUDIES IN CHURCH HISTORY

328. *The Church in Europe since 1800.*—3 s.h. PROFESSOR PETRY  
[Not offered in 1949-50]
331. *The Social Message of the Early and Medieval Church.*—3 s.h.  
PROFESSOR PETRY
332. *The Medieval Church.*—3 s.h. PROFESSOR PETRY
334. *Church Reformers and Christian Unity.*—3 s.h. PROFESSOR PETRY
336. *History of Christian Renunciation in the Middle Ages.*—3 s.h.  
[Not offered in 1949-50] PROFESSOR PETRY
365. *History of Religious Education in Modern Times.*—3 s.h.  
PROFESSOR SPENCE

## RELATED COURSES IN OTHER DEPARTMENTS

- History 221-222. *The Age of the Renaissance.*—6 s.h.  
ASSOCIATE PROFESSOR NELSON

- History 225-226. *The Age of the Reformation.*—6 s.h.  
[Not offered in 1949-50] ASSOCIATE PROFESSOR NELSON

## FIELD III. STUDIES IN CHRISTIAN THOUGHT

224. *Conceptions of Man in Western Thought.*—Prerequisite: 3 s.h. in Christian Doctrine or 6 s.h. in Philosophy. 3 s.h. PROFESSOR CUSHMAN  
[Not offered in 1949-50]
321. *Platonism and Christianity.*—Prerequisite: 6 s.h. in Philosophy or its equivalent. 3 s.h. PROFESSOR CUSHMAN
322. *Theology and Philosophy in the Nineteenth Century.*—3 s.h.  
[Not offered in 1949-50] PROFESSOR CUSHMAN
325. *Philosophical Theology I.*—3 s.h. PROFESSOR CUSHMAN
326. *Philosophical Theology II.*—3 s.h. PROFESSOR CUSHMAN
328. *Seminar in 20th Century Continental and British Theology.*—3 s.h.  
PROFESSOR CUSHMAN
329. *Seminar in Historical Theology.*—2 s.h.
368. *Theories of Religious Education.*—3 s.h. PROFESSOR SPENCE
382. *Religious Knowledge.*—Prerequisite: C. D. 229 or equivalent. 3 s.h.  
PROFESSOR BOSLEY
- 391-392. *Historical Types of Christian Ethics.*—6 s.h.  
ASSOCIATE PROFESSOR BEACH
394. *Christianity and the State.*—3 s.h. ASSOCIATE PROFESSOR BEACH
395. *Religious Thought in Colonial America.*—3 s.h. PROFESSOR SMITH
396. *American Religious Thought in the Nineteenth Century.*—3 s.h.  
PROFESSOR SMITH
397. *Current American Religious Thought.*—3 s.h. PROFESSOR SMITH
398. *Modern American Christology.*—3 s.h. PROFESSOR SMITH
495. *Seminar: Jonathan Edwards and John Wesley.*—2 s.h.  
PROFESSOR SMITH
496. *Seminar: William James and John Dewey.*—2 s.h. PROFESSOR SMITH

## RELATED COURSES IN OTHER DEPARTMENTS

Political Science 229. Recent and Contemporary Political Theory.—3 s.h.  
ASSOCIATE PROFESSOR HALLOWELL

Political Science 231. American Political Theory.—3 s.h.  
ASSOCIATE PROFESSOR HALLOWELL

## ROMANCE LANGUAGES

PROFESSOR JORDAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—214 CARR;  
PROFESSORS COWPER AND WALTON; ASSOCIATE PROFESSORS  
CASTELLANO AND DAVIS

## FRENCH

## FOR SENIORS AND GRADUATES

- |   |                  |
|---|------------------|
| 213. French Classicism.—3 s.h.                          | PROFESSOR WALTON |
| 214. French Classicism.—3 s.h.                          | PROFESSOR WALTON |
| 215-216. The Modern French Novel.—6 s.h.                | PROFESSOR JORDAN |
| 219. Old French.—3 s.h.                                 | PROFESSOR COWPER |
| 220. Old French.—3 s.h.                                 | PROFESSOR COWPER |
| 227. French Poetry since Théophile Gautier.—3 s.h.      | PROFESSOR WALTON |
| 232. Rousseau and the Beginnings of Romanticism.—3 s.h. | PROFESSOR COWPER |
| 238. Anatole France.—3 s.h.                             | PROFESSOR WALTON |

## FOR GRADUATES

- |   |                  |
|---|------------------|
| 317. History of the French Language.—3 s.h.                 | PROFESSOR COWPER |
| 323-324. Realism and Naturalism.—6 s.h.                     | PROFESSOR JORDAN |
| 325-326. French Literature in the Sixteenth Century.—6 s.h. | PROFESSOR WALTON |
| 331. Diderot and the Encyclopédie.—3 s.h.                   | PROFESSOR COWPER |
| 333-334. Contemporary French Literature.—6 s.h.             | PROFESSOR JORDAN |
| 350. Nineteenth-Century French Criticism.—3 s.h.            | PROFESSOR JORDAN |

## SPANISH

## FOR SENIORS AND GRADUATES

- |   |                                |
|---|--------------------------------|
| 253. Spanish Phonetics.—3 s.h.                                  |                                |
| 257-258. Old Spanish Language and Literature.—6 s.h.            | ASSOCIATE PROFESSOR DAVIS      |
| 260. Advanced Spanish Syntax.—3 s.h.                            | ASSOCIATE PROFESSOR DAVIS      |
| 261-262. Modern Spanish Novel.—6 s.h.                           | ASSOCIATE PROFESSOR CASTELLANO |
| 264. Modern and Contemporary Spanish Theater.—3 s.h.            | ASSOCIATE PROFESSOR CASTELLANO |
| 265. Golden Age Literature: Cervantes.—3 s.h.                   |                                |
| 266. Golden Age Literature: The Drama of the Golden Age.—3 s.h. |                                |

**SOCIOLOGY AND ANTHROPOLOGY**

PROFESSOR JENSEN, CHAIRMAN—310 LIBRARY BUILDING; PROFESSOR HART, DIRECTOR  
OF GRADUATE STUDIES—307 LIBRARY BUILDING; PROFESSOR THOMPSON;  
ASSOCIATE PROFESSORS LABARRE AND SCHETTLER

**ANTHROPOLOGY**

211. Peoples of the World.—Prerequisite: course 111 or 112. 3 s.h.  
ASSOCIATE PROFESSOR LABARRE
212. Primitive Religion.—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
ASSOCIATE PROFESSOR LABARRE
213. Culture and Personality.—3 s.h. ASSOCIATE PROFESSOR LABARRE  
(Admission only by consultation with the instructor.)
214. Society and Personality.—Prerequisite: course 213. 3 s.h.  
ASSOCIATE PROFESSOR LABARRE
330. Seminar in Anthropology.—1 to 3 s.h.  
ASSOCIATE PROFESSOR LABARRE

**ECOLOGY AND POPULATION MOVEMENTS**

233. Rural Sociology.—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
PROFESSOR THOMPSON
235. Urban Sociology.—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
PROFESSOR THOMPSON
237. Community and Society.—Prerequisite: course 91-92, 101, 111 or 112.  
3 s.h. PROFESSOR THOMPSON
238. Race and Culture.—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
PROFESSOR THOMPSON
340. Seminar in Community and Race Relations.—3 s.h.  
PROFESSOR THOMPSON

**COLLECTIVE BEHAVIOR**

243. Social Attitudes and Collective Behavior.—Prerequisite: course 91-  
92, 101, 111 or 112. 3 s.h. ASSOCIATE PROFESSOR SCHETTLER
246. Public Opinion and Propaganda.—Prerequisite: course 91-92, 101,  
111 or 112. 3 s.h. ASSOCIATE PROFESSOR SCHETTLER
249. Child Welfare.—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
PROFESSOR JENSEN
250. Marriage and the Family.—Prerequisite: course 91-92, 101, 111 or  
112. 3 s.h. PROFESSOR HART

**SOCIAL ORGANIZATION AND DISORGANIZATION**

271. Social Pathology.—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
PROFESSOR JENSEN
273. Special Problems in Social Pathology.—1 to 3 s.h.  
PROFESSOR JENSEN
276. Criminology.—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
PROFESSOR JENSEN
377. Seminar in Medical Sociology.—2 s.h.  
[Not offered in 1949-50]
378. Seminar in Family Law.—2 s.h. PROFESSOR BRADWAY  
[Not offered in 1949-50]
380. Seminar in Applied Sociology.—1 to 3 s.h. PROFESSOR JENSEN



## SOCIAL THEORY

286. Social Ethics.—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
 PROFESSOR HART

288. Contemporary Problems in Cultural Lag.—Prerequisite: course 91-92, 101, 111 or 112. 3 s.h.  
 PROFESSOR HART

381. Principles of Sociology.—3 s.h.  
 PROFESSOR JENSEN  
 [Not offered in 1949-50]

382. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

## METHODS OF SOCIAL RESEARCH

291. Statistical Methods in Sociology.—Prerequisite: course 91-92, 101, or 111-112. 3 s.h.  
 PROFESSOR HART

293-294. Special Problems in Social Statistics.—1 to 3 s.h.  
 PROFESSOR HART

391. Seminar in Social Statistics.—1 to 3 s.h. PROFESSOR HART

396. Methods of Social Research.—3 s.h. PROFESSOR JENSEN  
 [Not offered in 1949-50]

393. Operational Sociology.—Prerequisite: one of the following: Sociology 291 or Economics 237-238, or Education 209, or Mathematics 124, or some other acceptable course in statistics. 3 s.h.  
 PROFESSOR HART

399. Departmental Seminar.—1 s.h.  
 PROFESSORS JENSEN, HART, AND THOMPSON; ASSOCIATE  
 PROFESSORS SCHETTLE AND LABARRE

## RELATED COURSES IN OTHER DEPARTMENTS

Economics 215. Economic Systems.—3 s.h. PROFESSOR HOOVER

Economics 216. Economic Functions of the State.—3 s.h.  
 PROFESSOR HOOVER

Economics 217. Population Problems and Resources.—3 s.h.  
 PROFESSOR SPENGLER

Philosophy 205. Philosophy of History.—3 s.h. PROFESSOR WIDGERY

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h.  
 PROFESSOR WILSON

Political Science 224. Modern Political Theory.—3 s.h.  
 PROFESSOR WILSON AND ASSOCIATE PROFESSOR HALLOWELL

Psychology 206. Social Psychology.—3 s.h.

## ZOOLOGY

PROFESSOR GRAY, CHAIRMAN—218 BIOLOGY BUILDING; PROFESSOR HARGITT,  
 DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING; PROFESSOR  
 EMERITUS PEARSE; ASSOCIATE PROFESSORS BOOKHOUT, HUNTER,  
 WHARTON, AND WILBUR; ASSISTANT PROFESSORS  
 HORN AND JOHNSON

## FOR SENIORS AND GRADUATES

204. Advanced Parasitology.—Prerequisite: Zoology 161. 4 s.h.  
 ASSOCIATE PROFESSOR WHARTON

222. Entomology.—Prerequisite: one year of zoology. 4 s.h.  
 PROFESSOR GRAY

224. Vertebrate Zoology.—Prerequisite: Zoology 53. 4 s.h.  
 PROFESSOR GRAY

229. Endocrinology.—Prerequisites: Zoology 53, 92, and 171. 4 s.h.

238. Systematic Zoology.—Prerequisites: Zoology 1 and 2. 4 s.h.  
 ASSOCIATE PROFESSOR WHARTON

253. Advanced Vertebrate Morphology.—Prerequisites: Zoology 53, 92.  
 4 s.h. ASSISTANT PROFESSOR HORN

274. Invertebrate Zoology.—Prerequisites: Zoology 1 and 2. 4 s.h.  
 ASSOCIATE PROFESSOR BOOKHOUT

276. Protozoology.—Prerequisites: Zoology 1 and 2. 4 s.h.  
 ASSOCIATE PROFESSOR BOOKHOUT

#### FOR GRADUATES

303. Ecology.—4 s.h. PROFESSOR GRAY

306. Advanced Ecology.—Prerequisite: Zoology 303. 4 s.h.

307. Foundations of Zoology.—2 s.h.

324. Advanced Physiology.—Prerequisite: Zoology 171. 4 s.h.  
 ASSOCIATE PROFESSOR WILBUR

328. Experimental Embryology.—Prerequisites: Zoology 53, 92, 171, 156  
 or equivalents. 4 s.h. ASSISTANT PROFESSOR JOHNSON

341. Historical Zoology.—2 s.h. PROFESSOR HARGITT

343. Cytology.—Prerequisites: Zoology 53, 92, 156, or equivalents. 4 s.h.  
 PROFESSOR HARGITT

351-352. Zoological Journal Club.—2 s.h. STAFF

353-354. Research.

(a) Embryology. ASSISTANT PROFESSOR JOHNSON

(b) Physiology. ASSOCIATE PROFESSOR WILBUR

(c) Histology, Cytology. PROFESSOR HARGITT

(d) Invertebrate Zoology, Histology, Cytology.  
 ASSOCIATE PROFESSOR BOOKHOUT

(e) Ecology. PROFESSOR GRAY

(f) Entomology, Vertebrate Zoology. PROFESSOR GRAY

(g) Vertebrate Morphology and Morphogenesis.  
 ASSISTANT PROFESSOR HORN

(h) Parasitology. ASSOCIATE PROFESSOR HUNTER

(i) Parasitology. ASSOCIATE PROFESSOR WHARTON

355-356. Seminar.—2 s.h.

## COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS F. BERNHEIM, CONANT, EADIE, HALL, HETHERINGTON, MARKEE, MARTIN, NEURATH, PERLZWEIG, AND D. T. SMITH; ASSOCIATE PROFESSORS EVERETT, HANDLER, MCCREA, PEELE, SAWYER, AND TAYLOR; ASSISTANT PROFESSORS M. L. C. BERNHEIM, DUKE, SCHWERT, AND RUNDLES

### ANATOMY

**M201. Gross Human Anatomy.**—Hours and credits (maximum 8 s.h.) by arrangement. Prerequisite: adequate training in comparative anatomy and embryology. DR. MARKEE AND STAFF

**M202. Microscopic Anatomy.**—Hours and credits (maximum 3 s.h.) by arrangement. Prerequisite: adequate training in histology or cytology. DR. MARKEE AND STAFF

**M203. Anatomy of the Nervous System.**—Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201. DR. MARKEE AND STAFF

**M204. Neuroanatomical Basis of Behavior.**—3 s.h. DR. HETHERINGTON

### MICROBIOLOGY

**M221. Bacteriology and Immunology.**—Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 6 s.h. DR. D. T. SMITH AND STAFF

**M223. Advanced Bacteriology and Immunology.**—Prerequisites: Bacteriology and Immunology, M221. 8 s.h. DR. D. T. SMITH AND STAFF

**M325. Medical Mycology.**—Prerequisites: M.A. in Botany with Major in Mycology and M221. Course limited to four students each year. 8 s.h. DR. CONANT

### BIOCHEMISTRY AND NUTRITION

**M241. General Biochemistry and Nutrition.**—Prerequisites: general chemistry, organic chemistry, physical and analytical chemistry, and at least one year of college biology. 8 s.h.; without laboratory work 3 s.h. DRS. PERLZWEIG, TAYLOR, NEURATH, HANDLER, BERNHEIM AND SCHWERT

**M242. Biochemical Preparations.**—Prerequisite: Biochemistry 241 or its equivalent. 2, 3, or 4 s.h. DRS. PERLZWEIG, HANDLER, NEURATH, AND SCHWERT

**M341. Theories and Methods of Physical Biochemistry.**—2 s.h. DRS. NEURATH AND SCHWERT

**M343-344. Biochemistry of Proteins and Enzymes.**—4 s.h. DRS. NEURATH AND SCHWERT

**M345-346.**—2 s.h. DRS. PERLZWEIG, NEURATH, TAYLOR, HANDLER, AND BERNHEIM

**M347-348. Biochemical Research.**—Prerequisite: Biochemistry M241 or its equivalent. 2, 3, or 4 s.h. DRS. PERLZWEIG, TAYLOR, NEURATH, HANDLER, AND M. L. C. BERNHEIM

**M349-350. Intermediary Metabolism.**—Prerequisite: Biochemistry M241 or its equivalent. 4 s.h. DR. HANDLER

**M351-352. Nutrition.**—Prerequisite: Biochemistry M241 or its equivalent. Given alternately with Biochemistry M349-350. **4 s.h.**

DRS. HANDLER AND PERLZWEIG

#### HEMATOLOGY

**M211.**—Prerequisites: course in general zoology, general botany, histology and comparative anatomy. **4 s.h.**

DR. RUNDLES

#### PHYSIOLOGY AND PHARMACOLOGY

**M261-262. Human Physiology.**—Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. Credits depending on work taken. (Maximum **8 s.h.**)

**M365. Respiration and Aero-Physiology.**—Prerequisites: M261-2 or equivalent. **4 s.h.**

DR. HALL

**M367. Physiology of the Nervous System.**—Prerequisites: M261-2 or equivalent. **2 s.h.**

DR. EADIE

**M369. Pharmacology. Mode of Action of Drugs.**—M261-2 or equivalent. **4 s.h.**

DR. F. BERNHOFM

**M370. Seminar.**—**2 s.h.**

DR. EADIE, DR. HALL AND STAFF

**M372. Research.**

STAFF

#### MEDICAL PARASITOLOGY

**M291. Medical Parasitology.**—Prerequisites: courses in Zoology 204, general botany, histology and comparative anatomy. **1 s.h.**

DR. MARTIN AND STAFF



# THE DIVINITY SCHOOL

1948-1949

ANNOUNCEMENTS FOR 1949-1950

# THE DIVINITY SCHOOL OF DUKE UNIVERSITY

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## GENERAL INFORMATION

### HISTORICAL STATEMENT

The Indenture of Trust signed on December 11, 1924, by Mr. James B. Duke, which established Duke University, mentioned first among its objects the training of ministers of the Gospel. The Divinity School was, accordingly, the first of the graduate professional schools to be organized. Its work began with the year 1926-27, the formal opening exercises being held on November 9, 1926.

The Reverend Doctor Edmund Davison Soper was the first dean of the Divinity School. He was succeeded in 1928 by the Reverend Doctor Elbert Russell, and the latter in turn in 1941 by the Reverend Doctor Paul Neff Garber. In 1944, Dean Garber was elected to the episcopacy of the Methodist Church, and Doctor Harvie Branscomb assumed the duties of the dean's office. In 1946, Dean Branscomb became Chancellor of Vanderbilt University and in 1947, the Reverend Doctor Paul E. Root was elected dean but died before he could assume the office. The Reverend Doctor Harold A. Bosley, pastor of the Mount Vernon Place Methodist Church, Baltimore, Maryland, became dean on September 1, 1947.

### THE PURPOSE OF THE DIVINITY SCHOOL

The primary purpose of the Divinity School is to provide training for individuals planning to enter the Christian ministry. This includes not only prospective ministers in local churches, but also those preparing themselves to be missionaries at home and abroad, directors of religious education, teachers of religion, and social workers. Vital to all of these forms of service is a full understanding of the beginnings, content, and history of the Christian faith and its special pertinence for the spiritual needs of the modern world. Studies of a broad and thorough character directed toward such an understanding constitute the center of the curriculum of the Divinity School and are regarded as the basic training for all prospective Christian workers. Specific training in the skills required of local ministers and of leaders in the work of religious education are also provided. As funds become available for the purpose and as needs appear, additional training in specialized skills and areas of knowledge will be added to the curriculum.

Though bound by ties of history and obligation to the Methodist Church, the Divinity School is multi-denominational in its interests and ecumenical in its outlook. Its faculty is limited to no one denomination, but draws upon the resources of them all. Students of the several denominations are admitted on the same basis. The Divinity School conceives its task to be one of broad service to the Church of Christ in all of its forms.

**THE RELATION OF THE DIVINITY SCHOOL TO DUKE UNIVERSITY**

The Divinity School is an integral unit of the University and shares fully in its activities, privileges and responsibilities. The Sunday services in the University Chapel give the Divinity School students an opportunity to hear each year a number of the leading preachers of the country. The University Library, conveniently located next to the Divinity School Building, makes easily accessible a rich collection of approximately three quarters of a million volumes. Selected courses in the Graduate School of Arts and Sciences and in the professional schools are open to Divinity School students without payment of additional fees. The general cultural and recreational resources of the University are available to them on the same basis as other students.

**LIBRARY RESOURCES**

The Divinity School has its own library containing over forty-six thousand volumes. It is rich in complete files of the more important religious journals and periodicals, in source materials, particularly for the study of American church history, missions and the history of religion, and in facsimiles of the more important manuscripts of the New Testament. Among the most treasured possessions of the Library are eleven Greek New Testament manuscripts, of which one is a magnificent manuscript of the thirteenth or fourteenth century containing the entire text of the New Testament.

The general Library of the University is connected by a corridor with the Divinity School Building. It contains over seven hundred thousand volumes and receives the current issues of several thousand periodicals. The general Library contains also a catalogue of the library of the University of North Carolina located at Chapel Hill, twelve miles away, and a system of exchange operates between the two libraries so that books may be secured from that library also within a few hours.

The Henry Harrison Jordan Loan Library was endowed in 1947 by the children of the late Reverend Henry Harrison Jordan for the purpose of providing ministers in the field with the best of current religious literature. This collection was an outgrowth of the Duke Divinity School Loan Library established in 1944.

**PUBLIC LECTURES**

The Divinity School presents three public lectures annually. The lecturers for 1948-49 were Professor David E. Roberts, Associate Professor of Philosophy and Systematic Theology, Union Theological Seminary, New York; Dr. Kenneth Scott Latourette, Professor of Missions and Oriental History in the Yale Divinity School; and Dr. Erich Franck, Professor of Philosophy in the University of Pennsylvania. A special lecture was given by Dr. R. H. Thouless, Cambridge University, Cambridge, England.

**THE DIVINITY SCHOOL LIBRARY LECTURES**

In 1948 the Duke Divinity School Library Lectures were established by the Reverend George B. Ehlhardt for the purpose of bringing to the

campus a succession of the greatest religious leaders of the day. The first lecturer was the Reverend Dr. William Warren Sweet, distinguished historian of the American churches, and during the academic year 1948-1949 lectures on this endowment were given by the Reverend George Dunbar Kilpatrick, M.A., D.D., Dean Ireland's Professor of Exegesis of Holy Scripture, Oxford University, Oxford, England, and Dr. Wilhelm Pauck, Professor of Historical Theology at the University of Chicago.

#### THE CHRISTIAN CONVOCATION

The Christian Convocation of 1949 will be held on the Duke campus from June 7-10. The Convocation, under the joint sponsorship of the Duke Divinity School, The North Carolina Pastors' School, The North Carolina Rural Church Institute, and The North Carolina Council of Churches, will bring to the campus an outstanding group of religious leaders as lecturers and teachers.

#### ENDOWED SCHOLARSHIP FUNDS

Certain special scholarship funds have been established, the income of which is available for students wishing to secure training in preparation for the Christian ministry.

These scholarships are all awarded on the basis of service performed in a local church, thus providing for the student experience as well as financial aid.

##### N. Edward Edgerton Fund

In 1939 Mr. N. Edward Edgerton of Raleigh, North Carolina, an alumnus of Duke University of the Class of 1921, a member of the Board of Trustees of the University and a member of the Committee on the Divinity School, established the N. Edward Edgerton Fund. The award is limited to students who are candidates for the B.D. degree.

##### P. Huber Hanes Scholarship

Mr. P. Huber Hanes of Winston-Salem, North Carolina, an alumnus of Duke University of the Class of 1900 and a member of the Board of Trustees, has established an annual scholarship yielding the sum of \$400.00.

##### Elbert Russell Scholarship

In 1942 the Alumni Association of the Divinity School established a scholarship fund in honor of Elbert Russell, Dean Emeritus of the Divinity School and for a number of years Professor of Biblical Theology

##### W. R. Odell Scholarship

In 1946 the Forest Hills Methodist Church, Concord, North Carolina, established a scholarship fund in memory of W. R. Odell, for many years a member of the Board of Trustees of the University.

##### Hersey E. Spence Scholarship

In 1948 the Steele Street Methodist Church of Sanford, North Carolina, established a scholarship fund in honor of Professor Hersey E. Spence, a former pastor of the congregation.



**Jesse M. Ormond Scholarship Fund**

In 1949 the North Carolina Conference established a scholarship fund in honor of Professor Jesse M. Ormond, who for many years was Director of Field Work in the Duke Divinity School and Professor of Practical Theology.

**Duke Endowment Scholarships**

There are available for students preparing for the Methodist ministry approximately sixty work scholarships provided by the Duke Endowment for aiding rural Methodist churches in North Carolina.

**ANNUAL SCHOLARSHIPS**

In addition to the endowed scholarships and those provided by the Duke Endowment, the Divinity School receives annual scholarship funds from the following churches and individuals: The Edenton Street Methodist Church, Raleigh, N. C.; West Market Methodist Church, Greensboro, N. C.; Myers Park Methodist Church, Charlotte, N. C.; Christ Methodist Church, Charleston, W. Va.; Mr. J. C. Cowan, Jr., Greensboro, N. C. These scholarships are awarded on the same basis as the endowed scholarships.

**THE METHODIST COLLEGE ADVANCE**

The Divinity School was a participant in the North Carolina Methodist College Advance with askings of \$200,000.00 for scholarship aid and extension of the School's service to ministers. Many local churches and individuals have shared in the raising of this significant sum. Specific contributions are the Henry Harrison Jordan Loan Library and the James A. Gray Fund.

**THE JAMES A. GRAY FUND**

In 1947 Mr. James A. Gray of Winston-Salem, North Carolina, presented the fund which bears his name to the Divinity School for use in expanding and maintaining its educational services in behalf of North Carolina churches and pastors. From this fund four scholarships are awarded, two in city church work, and two in rural church work. The Divinity School Seminars are also supported by income from this gift. During 1949 Seminars were held in Kinston, North Carolina, and Charlotte, North Carolina. Special lecturers on these occasions were Dr. Thomas S. Kepler of Oberlin Graduate School of Theology, Oberlin, Ohio, and Dean Harold A. Bosley of Duke Divinity School. Lectures on the Christian Convocation are also made possible through this fund. In 1948 Dr. Paul Hutchinson, Editor of *The Christian Century*, was the lecturer.

**COURSES OF STUDY OFFERED BY THE DIVINITY SCHOOL**

The Divinity School offers at present two courses of study. The basic course is that which leads to the degree of Bachelor of Divinity. This is a three-year course and is recommended to all those preparing themselves for the work of the regular pastoral ministry.

Beginning with the year 1944-45 the Divinity School offered also a course of study leading to the degree of Master of Religious Education. This course is designed for individuals who wish to become directors or to take other specialized positions in the work of religious education. The course does not provide a general preparation for the work of the regular ministry and cannot serve as a substitute for it. No exchange of credits between the two courses is permitted, nor can departmental courses taken be credited toward more than one degree. Only a limited number of candidates for the Master of Religious Education degree will be accepted annually.

**COURSES OF STUDY IN RELIGION OFFERED BY THE GRADUATE SCHOOL  
OF ARTS AND SCIENCES**

Students who desire to pursue work in religion beyond that for the Bachelor of Divinity degree should register in the Graduate School of Arts and Sciences, through which the degrees of Master of Arts and Doctor of Philosophy may be obtained. This advanced work is administered through the Department of Religion of the Graduate School and is available to qualified persons of all denominations on an equal basis. Study and research may be pursued in three fields: (1) Biblical Studies; (2) Studies in Church History; and (3) Studies in Christian Thought. A list of courses approved by the Graduate Council for work in these fields, together with general requirements for admission to the Graduate School, may be found in the *Bulletin of the Graduate School*. This Bulletin is available on application to Dean Paul Gross, the Graduate School of Arts and Sciences, Duke University.

A limited number of University Scholarships and Fellowships, among which are two Gurney Harriss Kearns Fellowships of \$1,000 each, may be obtained by exceptionally qualified students. Applications for these must be submitted to Dean Gross on University form blanks not later than March 15 of each year.

Inquiries concerning specific requirements of the Department of Religion in the Graduate School should be addressed to Professor H. Shelton Smith, Director of Graduate Studies in Religion.

**FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS  
OF ORIENTAL RESEARCH**

The Divinity School of Duke University is one of the supporting members of the American Schools of Oriental Research. Accordingly, students in the Divinity School have the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They may also compete for the financial aids which are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.

## **COST, RESIDENTIAL ARRANGEMENT, AND STUDENT AID**

### **FEES AND COSTS**

The University tuition charge is \$175 per semester. Scholarships covering this amount are granted to all Divinity School students. Other charges are as follows:

*Fees per semester:*

General Fee.....	\$ 50.00
Approximate cost of meals per semester.....	175.00
Room per semester (double room).....	62.50
Total per semester.....	<hr/> \$287.50

The "General Fee" is in lieu of all special charges, and includes the following Fees: Matriculation, Medical, Library, Damage, Commencement and Diploma. Students may secure admission to all athletic contests held on the University grounds by payment of the Athletic Fee of \$5.00 per semester, plus any Federal taxes that may be imposed.

### **LATE REGISTRATION**

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of \$5.00.

### **DINING HALL**

The dining halls in the University Union have accommodations for all resident Divinity School students. Food service is cafeteria style. The cost of meals approximates \$1.25 to \$1.75 per day depending upon the need and taste of the individual. The dining facilities on the West Campus include three cafeterias with multiple choice menus and, in addition, the Oak Room where full meals and *a la carte* items are served.

### **LIVING QUARTERS**

Divinity School students are housed in the University dormitories along with other graduate and professional students. Application for room assignments should be addressed to the Housing Bureau, Duke Station, Durham, N. C.

### **STUDENT AID**

Duke University remits its regular tuition charges to all students enrolled in the Divinity School. Scholarship aid, over and above this, is available only in the form of work scholarships. The funds for these scholarships come from the sources described on page 10 of this catalogue. Those appointed to these scholarships agree to give ten weeks' service during the summer months to a church to which they are assigned. In return they receive their board and room for the period of their summer service and \$600. This latter sum is made available during the academic year preceding the summer work if desired. By special arrange-

ment a student may be assigned to a church for five weeks' work with one-half the stated remuneration.

#### WORK SCHOLARSHIPS

The Department of Field Work is maintained to help students receiving scholarship aid to secure work opportunities where they may render service for such aid. Their work will be supervised so that their experiences may be part of their ministerial training. Students not on scholarship are also helped to secure work opportunities for the experience to be gained. All students working under the department have their board, room, laundry, and travel expenses provided by the charge served. Certain courses are required of all students engaged in field work and are designed to prepare students for the work in which they engage. All students assigned to field work must maintain satisfactory grades and attitudes.

#### STUDENT GOVERNMENT ASSOCIATION

Each student of the Divinity School upon enrollment becomes a member of the Student Government Association. Four officers are elected by the student body annually in April to serve for the following year. These officers, the President, Vice-President, Secretary, and Treasurer, along with the Dean of the Divinity School or the Dean of Students, serve as the Executive Committee, and the committee chairmen constitute the Student Council which meets in monthly session to review and coordinate the programs of the several committees. It is desired that all students contribute to the corporate life of the school through active participation in the work of the committees. The Association operates on the basis of a unified budget, each student contributing to its support dues in the amount of \$3.00 per semester.

#### REQUIREMENTS FOR GRADUATION

##### REQUIREMENTS FOR ADMISSION

The Divinity School is a fully accredited member of the American Association of Theological Schools. Candidates for admission must hold the degree of A.B., based upon four years of work beyond secondary education, in a college which is approved by one of the regional accrediting bodies, or the equivalent of such a degree, and their college records must be such as to indicate their ability to carry on graduate professional studies. They will be admitted without examination on presentation of an official transcript of college and other academic credits which they may have secured. The application of students from foreign countries will be considered, each on its own merits, the general principle being that a training equivalent to that of a baccalaureate degree from an accredited American college must have been secured. Women will be admitted on the same basis as men. The Divinity School accepts students who desire to transfer from other accredited theological schools on the basis of transcripts of their work and honorable dismissal. However, all transfer students will be expected to meet the full requirements of the Divinity School and should recognize the fact that there may be loss of time in



conforming to these requirements. Credits will be formally accepted only after the student has spent one semester in the Duke Divinity School. In addition to an adequate academic preparation, applicants must satisfy the Faculty as to their Christian character and purpose. A formal application blank may be secured from the Dean of the Divinity School. This must be filled out and returned by all candidates for admission.

#### ADMISSION OF GRADUATES OF NON-ACCREDITED COLLEGES

1. Applicants for admission who are graduates of non-accredited colleges will be considered on their merits, but only those who give evidence of special promise will be admitted. Specifically, such applicants must show that they have attained a superior average (approximately "B") for a four-year college course.

2. Admission of such persons will, in every case, be *on probation*. Probations means:

a. Students who, during the first year of Divinity School work (thirty semester hours), maintain a consistently low average, including one or more failures, will be required to withdraw from the school.

b. In the case of a student admitted on probation, no credit will be granted toward either the B.D. or the M.R.E. degree for any course in which, during the first year's work (thirty semester hours), a grade of less than "S" (see catalogue section on "grading system") is recorded.

c. When the student has been admitted on probation, and is subsequently found to be deficient in the essential requisites of any given area of the Pre-Seminary Curriculum" (see next section of catalogue), the Divinity School Faculty reserves the right to direct that the student make up such deficiencies by additional courses of study taken in other schools of Duke University in order to qualify for either the B.D. or M.R.E. degree, but without credit for such courses toward those degrees.

#### PRESEMINARY CURRICULUM

The Divinity School, in substantial agreement with the standards of the American Association of Theological Schools, recommends that prospective candidates for admission keep in mind the desirability of including the following in their undergraduate curriculum:

(A student lacking the essential requisites in any given area may be directed to make up the deficiencies by additional courses of study in order to qualify as a candidate for a Divinity School degree.)

It is suggested that a student should acquire a total of 90 semester hours or complete approximately three-fourths of his college work in the areas listed below. No work done towards a first college degree may be used toward a Divinity School degree.

<i>Basal Fields</i>	<i>Semester</i>	<i>Sem. Hours</i>
English	6	12-16
Literature, Composition and Speech		
Philosophy	3	6-12
At least two of the following:		
Introduction to philosophy		
History of philosophy		
Ethics		
Logic		
Bible or Religion	2	4-6
History	3	6-12
Psychology	1	2-3
A foreign language	4	12-16
At least one of the following:		
Latin		
Greek (especially recommended)		
Hebrew (especially recommended)		
French		
German		
Natural sciences	2	4-6
Physical or biological		
Social sciences	2	4-6
At least two of the following:		
Economics		
Sociology		
Government or political science		
Social psychology		
Education		

#### CONCENTRATION

Concentration of work, or "majoring," is a common practice in colleges. For such concentration or major, a constructive sequence based upon any one, two, or three of the above fields of study would lead up naturally to a theological course.

Of the various possible areas of concentration, where areas of concentration are required, a major in English, philosophy, or history is regarded to be the most desirable.

#### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

During the academic year 1948-49, the curriculum of the Divinity School was extensively revised. By action of the faculty, all students admitted to the Divinity School as of September 1, 1949, will conform to the requirements for the B.D. degree as printed in this issue of the catalogue. All students planning to graduate as of June, 1950, will continue under the former plan, especially as to requirement of a major and thesis. A special committee was set up to adjust the new curriculum to the rights and needs of all other students, whether already enrolled in the school or entering as transfers from other institutions: many such students may find it necessary to graduate under the major and thesis plan.

The plan for the first two years of the revised curriculum goes into effect as of September, 1949. The Vocational Groups and the Divisional

Seminars called for in the work of the third year are in process of development and will be put into effect for the year 1950-51.

The requirements for the degree of Bachelor of Divinity are the following:

Completion of ninety semester hours of course work, including the required courses of the Core Curriculum.

The selection, not later than the end of the middle year, of one of the Vocational Groups, and completion of the special requirements of the Group chosen, including satisfactory completion of the work of at least one Divisional Seminar in that Group.

Demonstration of a detailed knowledge of the contents of the narrative portions of the English Bible. Examinations for this purpose in Old and New Testament are given each spring. Examinations for the academic year 1949-50 will be held on successive Wednesdays in April, exact dates to be announced later.

Students who show deficiencies in English composition will be required to take special training in addition to meeting the other requirements for the degree.

The course leading to the degree of Bachelor of Divinity is planned to cover three years of normal academic work. In no case will this degree be conferred on a student until he has spent at least two semesters in residence in the Divinity School. This is defined as the completion of thirty semester hours of work, not more than six hours of which may be taken in the Duke University Summer Session.

By special permission a student who has begun his work in Duke Divinity School as a candidate for the B.D. degree may be given credit for not more than 30 semester hours of work taken in another seminary on the approved list of the American Association of Theological Schools. Except in unusual cases, request for such credits must be approved prior to the beginning of work at the other institution. In every such case, however, the final 15 hours of class credit presented for graduation must be done at Duke and must include satisfactory completion of one of the Divisional Seminars of the senior year. No such student will be relieved of any of the requirements for graduation specified in the catalogue of the Duke Divinity School.

Unless all the work offered for the B.D. degree is completed within a period of nine years from the date of beginning, the student will be required to make formal application for re-admission and revaluation of his credits in the light of the then-existing curriculum of the Divinity School. Except in unusual cases, work of a fragmentary character taken over a long period of years, or work taken many years before a student is admitted to the Duke Divinity School, will not be accepted for credit toward the B.D. degree.

**THE CORE CURRICULUM**

(Required Courses)

**First Year, First Term**

- |   |                 |
|---|-----------------|
| 11. Introduction to the Old Testament.—4 s.h.     | MR. STINESPRING |
| 13. History of the Pre-Reformation Church.—4 s.h. | MR. PETRY       |
| 15. Living Religions of the World.—3 s.h.         | MR. CANNON      |
| 17. Effective Speaking.—2 s.h.                    | MR. RUDIN       |

**First Year, Second Term**

- |   |             |
|---|-------------|
| 18. Early Christian Life and Literature.—4 s.h. | MR. CLARK   |
| 20. Introduction to Christian Theology.—4 s.h.  | MR. CUSHMAN |
| 22. Psychology of Religion.—3 s.h.              | MR. HICKMAN |

**Second Year, First Term**

- |  |             |
|--|-------------|
| 19. Introduction to New Testament Theology.—Prerequisite: N.T. 18. 2 s.h.        | MR. YOUNG   |
| 21. Introduction to the History of Christian Doctrine.—Prerequisite: C.T. 2 s.h. | MR. CUSHMAN |
| 23. Church Administration I.—2 s.h.  | MR. WALTON  |
| 25. Educational Theory and Practice in the Church.—2 s.h.                        | MR. SPENCE  |
| 27. Christian Ethics I.—3 s.h.   | MR. BEACH   |
| 29. Sermon Construction—Theory.—Prerequisite: Sp. 17 or 132. 2 s.h.              | MR. CLELAND |

**Second Year, Second Term**

- |   |                           |
|---|---------------------------|
| 12. Psalms, Wisdom Literature, and the Problem of Theodicy.—Prerequisite: O.T. 11. 2 s.h. | MR. STINESPRING           |
| 14. History of the Reformation and Post-Reformation Church.—Prerequisite: C.H. 13. 2 s.h. | MR. PETRY                 |
| 24. Missions.—2 s.h.  | MR. CANNON                |
| 26. Introduction to Pastoral Care.—2 s.h.   | MR. DICKS                 |
| 28. Movements in American Religious Thought.—3 s.h.                                       | MR. SMITH                 |
| 30. Sermon Construction—Practice.—2 s.h.  | MR. CLELAND AND MR. RUDIN |

**Third (Senior) Year**

**VOCATIONAL GROUPS.** (One of these to be chosen by every B.D. candidate not later than end of Middle Year.)

**I. The Preaching Ministry and Pastoral Service**

In the third year, students electing Vocational Group I must take one course from each of the following fields, except in the case of those students who have previously elected these courses during the first two years:

Religious Education	Speech (for those found deficient in first course)
Practical Theology	Philosophy of Religion
Pastoral Care	

The student will also elect one Divisional Seminar from those to be offered in each of the four divisions of study (Biblical, historical, theological, practical). The seminar will carry credit of two or three hours, as may be determined by the divisional staff. Free electives in sufficient amount to complete 90 hours for graduation will be taken.



**II. Applied Christianity**

A. Religious Education. In the third year, students electing Vocational Group II must take the following courses, except in the case of those students who have previously elected these courses during the first two years:

Religious Education and Practical Theology (3 courses distributed between the two departments)

Psychology of Religion (1 course)

The student will also elect one Divisional Seminar from those to be offered in each of the four divisions of study (Biblical, historical, theological, practical). The seminar will carry credit of two or three hours, as may be determined by the divisional staff. Free electives in sufficient amount to complete 90 hours for graduation will be taken.

(Students planning to teach the Bible in public schools should elect some work in Bible.)

B. Missions.

C. Chaplaincy: Hospital or General.

D. Campus Religious Directors.

(These to be developed as called for.)

**III. Teaching and Research in Religion**

In the third year, those choosing Vocational Group III will take seven courses from the following:

American Religious Thought	Philosophy of Religion
Bible (may be language)	Psychology of Religion
Christian Ethics	Religious Education
Church History	Theology
History of Religions	

The student will also elect one Divisional Seminar from those to be offered in each of the four divisions of study (Biblical, historical, theological, practical). The seminar will carry credit of two or three hours, as may be determined by the divisional staff. Free electives in sufficient amount to complete 90 hours for graduation will be taken.

**ADMINISTERING THE NEW CURRICULUM**

For the administration of the new curriculum the following regulations have been adopted:

Full-time students will take the core required courses as specified for the respective semesters, being limited to the amount of free elective work indicated in each term. The only exceptions are as specified in the provision for languages.

Since the four-day-a-week schedule of required courses and the free week-ends have been planned with special reference to the needs of students holding pastoral charges, the limitation of 9 hours of class work has been changed to permit, but not require, such students to carry the total of hours of the core requirements for the first four semesters, but free electives may not be taken until all the core requirements have been fulfilled. A student who does not do creditable work will be required to reduce his schedule.

The status of "special student" may not be granted simply to permit avoidance of the schedule of core required courses. Every request for this classification will be carefully investigated and approval voted in each case by the curriculum committee in the cases of students already admitted to the Divinity School, and by the admissions committee in the case of applicants for admission as "special students."

Students working under the Duke Endowment, and others holding

charges, are required to take one of the Field Work seminars. This work will be taken in the second semester of the first year. Unless taken at that spot, such seminars will be charged against the "free elective" allowance of later terms.

For a student taking both Greek and Hebrew, the Greek may be continued in the second year by postponing one or both of the 2-hour core courses in Old and New Testament. In such cases, the Hebrew will be the free elective in that year.

A part-time student who desires to begin the study of Greek in the first year may postpone the core required course in Old or New Testament.

The Registrar will make suitable entry on the permanent record of any student who is granted permission to deviate from the core requirements in the matter of language.

#### **REQUIREMENTS FOR THE DEGREE OF MASTER OF RELIGIOUS EDUCATION**

The course of study leading to this degree is designed to provide training primarily for individuals desiring to become educational assistants in churches or to engage in other forms of Christian education.

Candidates for this degree must hold the degree of A.B., based upon four years of work beyond secondary education, in a college which is approved by one of the regional accrediting bodies, or the equivalent of such a degree, and with academic and personal records which afford promise of competence in this area of service. The course of study will be especially useful for individuals who had one or more years of experience in religious education and desire further training. Candidates for this degree will be limited in number, and individuals interested are urged to apply for admission well in advance of the opening of the academic year. All work offered for this degree, whether in the regular year or in summer sessions, must be completed within a period of six years from the date of beginning. Only a limited amount of work may be taken in the Duke University Summer Session.

Certain prerequisite studies must have been taken by the candidate during the course of his academic training or must be secured, without credit toward the M.R.E. degree, after being admitted to the Divinity School. These are the following:

General Psychology	6 s.h.
Sociology	6 s.h.
Biblical Studies (including work in both the Old and the New Testament)	6 s.h.

Thirty semester hours of academic work are required for graduation  
Eighteen of the semester hours must be in the following fields:

Religious Education	6 s.h.
Psychology of Religion	3 s.h.
Christian Ethics	3 s.h.
Biblical Studies	6 s.h.

The candidate must also engage in practice teaching in a church school or undertake some other approved project and must submit a written report covering his practical experience. This project work and report will be under the supervision of the Department of Religious Education.

## COURSES OF INSTRUCTION\*

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Odd numbers indicate fall semester courses; even numbers indicate spring semester courses. Required courses of the Core Curriculum are numbered from 11 to 99. Elective courses carrying credit in the Divinity School only are numbered from 101 to 199. Courses approved for credit in both the Divinity School and the Graduate School of Arts and Sciences are numbered above 200.

### I. DIVISION OF BIBLICAL STUDIES

#### OLD TESTAMENT

- |  |                 |
|--|-----------------|
| 11. (Formerly 203.) Introduction to the Old Testament.—4 s.h.  | MR. STINESPRING |
| 12. (Formerly 204.) Psalms, Wisdom Literature, and the Problem of Theodicy.—2 s.h.<br>[Not offered in 1949-1950] | MR. STINESPRING |
| 101. (Formerly 307.) Syriac.—3 s.h.<br>[Not offered in 1949-1950]  | MR. STINESPRING |
| 201-202. First Hebrew.—6 s.h.  | MR. STINESPRING |
| 205-206. Elementary Arabic.—6 s.h.<br>[Not offered in 1949-1950]   | MR. STINESPRING |
| 207-208. Second Hebrew.—6 s.h.   | MR. STINESPRING |
| 301. The Religious Thought of Post-Exilic Judaism.—Prerequisite: O.T. 11. 3 s.h.                                 | MR. YOUNG       |
| 304. Aramaic.—3 s.h.<br>[Not offered in 1949-1950]   | MR. STINESPRING |
| 305. Third Hebrew.—3 s.h.  | MR. STINESPRING |
| 309. History of the Ancient Near East.—3 s.h.<br>[Not offered in 1949-1950]                                      | MR. STINESPRING |
| 310. Old Testament Prophecy.—Prerequisite: O.T. 11. 3 s.h.   | MR. STINESPRING |

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\*History of Art 215. Art of the Ancient Near East.—3 s.h.

MR. MARKMAN

\*History of Art 216. Religious Art in the Classical World.—3 s.h.

MR. MARKMAN

#### NEW TESTAMENT

- |   |           |
|---|-----------|
| 18. (Formerly 213.) Early Christian Life and Literature.—4 s.h.                           | MR. CLARK |
| 19. (Formerly 214.) Introduction to New Testament Theology.—Prerequisite: N.T. 18. 2 s.h. | MR. YOUNG |

\* On recommendation of the Registrar, courses offered in the Graduate School of Arts and Sciences other than those approved for credit in the Divinity School may be approved for credit in individual cases, provided no equivalent course is offered in the Divinity School; each case to be decided on its merits.

103-104. (Formerly 211-212.) **Hellenistic Greek.**—6 s.h., provided the student takes two additional semester hours in New Testament Greek.

MR. YOUNG

105. (Formerly 219.) **Life of Paul.**—3 s.h.

MR. MYERS

109. (Formerly 216.) **History of the English Bible.**—3 s.h.

MR. CLARK

217. **The New Testament in Greek.**—Prerequisite: six semester hours' study of the Greek language. 2 s.h.

MR. CLARK

218. **Galatians and I Corinthians.**—Prerequisite: six semester hours' study of the Greek language. 2 s.h.

MR. CLARK

220. **I Peter and the Gospel of John.**—Prerequisite: six semester hours' study of the Greek language. 2 s.h.

MR. CLARK

[Not offered in 1949-1950]

311. **The Life and Teachings of Jesus.**—Prerequisite: N.T. 18. 3 s.h.

MR. CLARK

312. **Advanced New Testament Theology.**—Prerequisite: N.T. 19. 3 s.h.

MR. YOUNG

313. **Apostolic Fathers.**—Prerequisite: N.T. 18. 2 s.h.

MR. CLARK

314. (Formerly 317.) **Patristic Thought.**—Prerequisite: N.T. 19. 3 s.h.

MR. YOUNG

316. **Hellenistic Religions.**—Prerequisite: N.T. 18. 3 s.h.

MR. CLARK

[Not offered in 1949-1950]

317. (Formerly 320.) **The Synoptic Gospels.**—Prerequisite: N.T. 18. 3 s.h.

MR. CLARK

318. **Text of New Testament.**—Prerequisite: N.T. 18 and a reading knowledge of Greek. 3 s.h.

MR. CLARK

[Not offered in 1949-1950]

319. **Intellectual Environment of Early Christianity.**—Prerequisite: N.T. 19, or permission of the instructor. 3 s.h.

MR. YOUNG

\*Greek 257.—3 s.h.

MR. ROGERS

\*Latin 258.—3 s.h.

MR. ROGERS

## II. DIVISION OF HISTORICAL STUDIES

### HISTORY OF RELIGION AND MISSIONS

15. (Formerly 281.) **Living Religions of the World.**—3 s.h.

MR. CANNON

24. (Formerly 282.) **Missions.**—2 s.h.

MR. CANNON

108. (Formerly 284.) **Comparative Religion I.**—Prerequisite: H.R. 15. 3 s.h.

MR. CANNON

[Not offered in 1949-1950]

110. (Formerly 286.) **Comparative Religion II.**—Prerequisite: H.R. 15. 3 s.h.

MR. CANNON

112. (Formerly 288.) **The Religions of India.**—3 s.h.

MR. CANNON

[Not offered in 1949-1950]

113. (Formerly 283.) **The Religions of the Far East.**—3 s.h.

MR. CANNON

[Not offered in 1949-1950]

\* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.



115. (Formerly 289.) **Buddhism.**—Prerequisite: H.R. 15. 2 s.h. Mr. CANNON

117. (Formerly 287.) **Mohammedanism.**—Prerequisite: H.R. 15. 2 s.h.  
[Not offered in 1949-1950] Mr. CANNON

#### CHURCH HISTORY

13. (Formerly 233.) **History of the Pre-Reformation Church.**—4 s.h. Mr. PETRY

14. (Formerly 234.) **History of the Reformation and Post-Reformation Church.**—2 s.h. Mr. PETRY

136. (Formerly 337.) **Pre-Reformation Preaching.**—Prerequisite: C.H. 13. 2 s.h. Mr. PETRY

137. (Formerly 336.) **Religious Leaders in Christian History.**—Prerequisite: C.H. 13. 2 s.h. Mr. PETRY

139. (Formerly 339.) **Methodism.**—Prerequisite: C.H. 13. 2 s.h. Mr. PETRY

331. **The Social Message of the Early and Medieval Church.**—Prerequisite: C.H. 13 and 14. 3 s.h. Mr. PETRY

332. **The Medieval Church.**—Prerequisite: C.H. 13 and 14. 3 s.h.  
[Not offered in 1949-1950] Mr. PETRY

334. **Church Reformers and Christian Unity.**—Prerequisite: C.H. 13 and 14. 3 s.h. Mr. PETRY

336. (Formerly 333.) **A History of Christian Renunciation in the Middle Ages.**—Prerequisite: C.H. 13 and 14. 3 s.h.  
[Not offered in 1949-1950] Mr. PETRY

#### AMERICAN RELIGIOUS THOUGHT

28. (Formerly 296.) **Movements in American Religious Thought.**—3 s.h. Mr. SMITH

395. **Religious Thought in Colonial America.**—3 s.h. Mr. SMITH

396. **American Religious Thought in the Nineteenth Century.**—3 s.h. Mr. SMITH

397. **Current American Religious Thought.**—3 s.h. Mr. SMITH

398. **Modern American Christology.**—3 s.h.  
[Not offered in 1949-1950] Mr. SMITH

399. **Social Thought in American Christianity.**—3 s.h.  
[Not offered in 1949-1950] Mr. SMITH

495. **Seminar: Jonathan Edwards and John Wesley.**—2 s.h. Mr. SMITH

496. **Seminar: William James and John Dewey.**—2 s.h. Mr. SMITH

### III. DIVISION OF THEOLOGICAL STUDIES

#### PHILOSOPHY OF RELIGION

119. (Formerly 229.) **Introduction to Philosophy of Religion.**—2 s.h.  
[Not offered in 1949-1950] Mr. BOSLEY

121. **Philosophy of Contemporary Theism.**—2 s.h. Mr. BOSLEY

122. **The Philosophy of Naturalistic Theism.**—Prerequisite: consent of instructor. 2 s.h. Mr. BOSLEY  
[Not offered in 1949-1950]

\* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

123. Theories of Value: A General Course.—2 s.h. MR. BOSLEY
124. The Philosophy of Personalism.—Prerequisite: consent of instructor.  
2 s.h. MR. BOSLEY
382. Religious Knowledge.—Prerequisite: P.R. 119 or consent of instructor.  
2 s.h. MR. BOSLEY

## CHRISTIAN THEOLOGY

20. (Formerly 221.) Introduction to Christian Theology.—4 s.h.  
MR. CUSHMAN
21. (Formerly 222.) Introduction to the History of Christian Doctrine.—  
Prerequisite: C.T. 20. 2 s.h. MR. CUSHMAN
107. (Formerly 329.) The Person and Work of Christ.—Prerequisite: C.T.  
20. 2 s.h. MR. CUSHMAN  
[Not offered in 1949-1950]
224. (Formerly 323.) Conceptions of Man in Western Thought.—3 s.h.  
MR. CUSHMAN
321. Platonism and Christianity.—Prerequisite: permission of instructor.  
3 s.h. MR. CUSHMAN
322. Theology and Philosophy in the Nineteenth Century.—Prerequisite:  
C.T. 20. 3 s.h. MR. CUSHMAN  
[Not offered in 1949-1950]
325. Philosophical Theology I.—Prerequisite: C.T. 20. 3 s.h.  
MR. CUSHMAN
326. Philosophical Theology II.—3 s.h. MR. CUSHMAN
328. (Formerly 321B.) Seminar in Twentieth-Century Continental and  
British Theology.—3 s.h. MR. CUSHMAN
329. Seminar in Historical Theology.—Prerequisite: C.T. 21. 3 s.h.  
MR. CUSHMAN

See also New Testament 312.—Advanced New Testament Theology.

## CHRISTIAN ETHICS

27. (Formerly 291.) Christian Ethics.—3 s.h. MR. BEACH
114. (Formerly 292.) Christian Ethics II.—Prerequisite: C.E. 27. 3 s.h.  
MR. BEACH
391. Historical Types of Christian Ethics I.—Prerequisite: C.E. 27 or its  
equivalent. 3 s.h. MR. BEACH
392. Historical Types of Christian Ethics II.—Prerequisite: C.E. 391.  
3 s.h. MR. BEACH
393. The Christian Interpretation of History.—Prerequisite: C.E. 27.  
3 s.h. MR. BEACH
394. Christianity and the State.—Prerequisite: C.E. 27. 3 s.h.  
MR. BEACH

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- \*238. Race and Culture. MR. THOMPSON
- \*249. Child Welfare. MR. JENSEN
- \*250. Marriage and the Family. MR. HART
- \*276. Criminology. MR. JENSEN
- \*382. History of Sociological Theory. MR. JENSEN

\* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity. For a description of the course, see the catalogue of the Graduate School.

## PSYCHOLOGY OF RELIGION

22. (Formerly 271.) **Psychology of Religion.**—3 s.h. MR. HICKMAN
125. (Formerly 272.) **Advanced Psychology of Religion.**—3 s.h.  
MR. HICKMAN
127. (Formerly 373.) **Psychology of Preaching.**—2 s.h. MR. HICKMAN  
[Not offered in 1949-1950]
128. (Formerly 374.) **Pastoral Psychology.**—2 s.h. MR. HICKMAN  
[Not offered in 1949-1950]
129. (Formerly 375.) **Genetic Psychology of Religion.**—3 s.h.  
MR. HICKMAN
130. (Formerly 376.) **Studies in Mysticism.**—3 s.h. MR. HICKMAN

## IV. DIVISION OF PRACTICAL STUDIES

The Core Curriculum sequence, Consolidated Course in Christian Leadership, comprises the following courses in the Division of Practical Studies, each of which is listed in its appropriate department:

- PT. 23. **Church Administration I.**—2 s.h.
- R.E. 25. **Educational Theory and Practice in the Church.**—2 s.h.
- H.R. 24. **Missions.**—2 s.h.
- P.C. 26. **Introduction to Pastoral Care.**—2 s.h.

## PRACTICAL THEOLOGY

23. (Formerly 252.) **Church Administration I.**—2 s.h. MR. WALTON
142. (Formerly 253.) **Field Work I. General.**—1 s.h. (Note: All students engaged in any type of field work are required to take this course, or 144, Field Work II, or 146, Field Work III.) MR. WALTON
144. (Formerly 254.) **Field Work II—Rural.**—1 s.h. MR. WALTON
145. **Field Work III—Urban.**—1 s.h. MR. WALTON
146. **Church Administration II.**—2 s.h. MR. WALTON
147. **The Urban Community and Its Church.**—2 s.h. MR. WALTON  
[Not offered in 1940-1950]
148. **Church Finance.**—1 s.h. MR. WALTON  
[Not offered in 1949-1950]
149. **Parish and Community Research and Analysis.**—1 s.h. MR. WALTON
150. **The Rural Pastor and His Work.**—2 s.h. MR. WALTON  
[Not offered in 1949-1950]
151. (Formerly 353.) **The Rural Church.**—2 s.h. MR. WALTON
152. (Formerly 354.) **Parish Evangelism.**—2 s.h. MR. WALTON
153. **Church Management and Supervision.**—1 s.h. MR. WALTON  
[Not offered in 1949-1950]
154. (Formerly 356.) **The Urban Church.**—2 s.h. MR. WALTON  
[Not offered in 1949-1950]
155. (Formerly 357.) **Church Polity: Comparative and Denominational.**—2 s.h. MR. WALTON AND OTHERS

(The plan of this course is for the class to meet as a unit one hour a week for the study of the common interests of the denominations; for the other hour the class is divided into groups on the following plan:

- a. The Polity of the Methodist Church.
- b. The Polity of the Baptist Churches.
- c. The Polity of the Congregational-Christian Churches.
- d. The Polity of the Presbyterian Churches.

Courses in the polity of other churches will be arranged as needed.)

157. Rural Community and Church Trends.—1 s.h.

[Not offered in 1949-1950]

MR. WALTON

#### RELIGIOUS EDUCATION

25. (Formerly 261.) Educational Theory and Practice in the Church.—  
2 s.h. MR. SPENCE
161. Theories, Types and Techniques of Teaching.—2 s.h. MR. SPENCE
162. (Formerly 262.) Methods and Materials of Religious Education.—  
3 s.h. MR. SPENCE
163. (Formerly 363.) Worship and Drama.—3 s.h. MR. SPENCE
164. Religious Education of Children and Adolescents.—2 s.h.  
[Not offered in 1949-1950] MR. SPENCE
166. Religious Education of Young People and Adults.—2 s.h.  
MR. SPENCE
168. (Formerly 366.) The Educational and Spiritual Values of Great Lit-  
erature.—3 s.h. MR. SPENCE
365. History of Religious Education in Modern Times.—3 s.h.  
[Not offered in 1949-1950] MR. SPENCE
368. Theories of Religious Education.—3 s.h. MR. SPENCE  
[Not offered in 1949-1950]

#### PASTORAL CARE

26. (Formerly 251.) Introduction to Pastoral Care.—2 s.h. MR. DICKS
171. (Formerly 255.) Pastoral Care Practicum I.—Prerequisite: P.C. 26  
or consent of instructor. 2 s.h. MR. DICKS
172. (Formerly 256.) Pastoral Care Practicum II.—Prerequisite: P.C. 26  
or P.C. 171. 2 s.h. MR. DICKS
173. Religion and Health.—Prerequisite: P.C. 26 or consent of instructor.  
2 s.h. MR. DICKS  
[Not offered in 1949-1950]
174. Personal Counseling.—2 s.h. MR. DICKS
175. (Formerly 351.) The Literature of Pastoral Care.—Prerequisite: con-  
sent of instructor. 2 s.h. MR. DICKS
176. Pastoral Care and Social Work.—Prerequisite: P.C. or consent of  
instructor. 2 s.h. MR. DICKS  
[Not offered in 1949-1950]
177. Advanced Seminar in Pastoral Care.—Prerequisite: P.C. 26 or con-  
sent of instructor. 2 s.h. MR. DICKS

#### PREACHING

29. (Formerly 243.) Sermon Construction—Theory.—Prerequisite: Sp. 17  
or 132. 2 s.h. MR. CLELAND



30. (Formerly 243.) **Sermon Construction—Practice.**—2 s.h.  
MR. CLELAND AND MR. RUDIN
181. (Formerly 244.) **Practical Problems in Preaching.**—Prerequisite: Pr.  
29 and 30. 2 s.h. MR. CLELAND  
[Not offered in 1949-1950]
183. (Formerly 346.) **Materials of Preaching—Biblical.**—2 s.h.  
MR. CLELAND
185. (Formerly 348.) **Materials of Preaching—Non Biblical.**—2 s.h.  
[Not offered in 1949-1950] MR. CLELAND
- See also: C.H. 136. **Pre-Reformation Preaching.**  
Psy.R. 127. **Psychology of Preaching.**

## PUBLIC WORSHIP

178. (Formerly 355.) **Public Worship.**—3 s.h.  
MR. CLELAND AND MR. RUDIN
180. (Formerly 358.) **Church Music.**—2 s.h. MR. BARNES

## SPEECH

17. (Formerly 241.) **Effective Speaking.**—2 s.h. MR. RUDIN
132. (Formerly 242.) **Public Speaking.**—2 s.h. MR. RUDIN
134. (Formerly 246.) **Oral Interpretation of Literature.**—Prerequisite:  
Speech 17. 2 s.h. MR. RUDIN  
[Not offered in 1949-50]



# THE SCHOOL OF LAW

HAROLD SHEPHERD, A.B., J.D.

*Dean*

1948-1949

ANNOUNCEMENTS FOR 1949-1950

Member of the Association of American Law Schools  
Approved by the American Bar Association

Fall Semester, 1949, begins September 14; Spring Semester,  
1950, begins January 30.

## **THE SCHOOL: ITS PURPOSES AND METHODS**

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Built on the foundation of the School of Law of Trinity College, with its history of legal instruction running back to the middle of the past century, the Duke University School of Law was established in 1924. In 1930 the School was moved into its present building, the Faculty and library were greatly increased, and the activities of the School broadened. The School of Law is a member of the Association of American Law Schools and is on the "Approved List" of the American Bar Association. More than thirty-five states and one hundred institutions of higher learning are represented in its student body.

The curriculum of the School of Law provides thorough preparation for the practice of law in any state; its graduates have been admitted to the bar in forty states and the Territory of Hawaii. Opportunities for specialization in particular branches of the law are afforded.

## **ADMISSION OF STUDENTS—REGISTRATION—FEES**

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### **DIRECTIONS TO APPLICANTS FOR ADMISSION**

Application must be made on the prescribed Law School application blank which will be sent upon request. No application can be finally passed upon until all required documents are on file. These documents are: (1) the application itself, to which a recently made personal photograph should be attached; (2) a complete transcript of record and evidence of graduation or right to honorable withdrawal from the institution from which credit is offered; (3) letters from (a) a responsible official of the college attended, (b) a responsible person in the applicant's home community, and (c) the applicant himself, in his own handwriting, containing a statement of his general activities and intellectual interests with special reference to reasons for wishing to attend law school; (4) in the case of applicants for admission to the first-year class in 1950 and thereafter, a report of the applicant's score on the Law School Admission Test.

### **TIMES OF ADMISSION**

Beginning students may enter only at the opening of the Fall semester in any year. Students who have completed the first year of law study at this or any other law school approved by the Association of American Law Schools may enter at the beginning of any semester.

### **REQUIREMENTS FOR ADMISSION**

An application for admission as a candidate for the degree of Bachelor of Laws may be submitted by any person (1) who is a graduate of a college of approved standing and who has maintained a minimum average



of "C" on all work taken, or (2) who has completed in a college of approved standing work equivalent in number of units to three-fourths of that required for graduation and whose college work in its entirety shows an average grade equal to that required for graduation, the requirement in each case being determined by the regulations of the college where the work was taken.

Special provisions for the admission of veterans, whereby military service may be substituted for one year of the three years of college required for admission, are stated below.

#### **VETERANS' ADMISSION REQUIREMENTS**

Any person who served in active military or naval service on or after September 16, 1940, and prior to the termination of the war, and who has been discharged or released therefrom under conditions other than dishonorable and who either has served ninety days or more (exclusive of any period he was assigned for a course of education or training under the Army Specialized Training Program or the Navy College Training Program), or has been discharged or released from active service by reason of an actual service-incurred injury or disability, may substitute such term of service for one year of the three years of college required for admission. Academic credits will be recognized if gained through examinations on work of college grade pursued while in the military or naval service, if such work is given credit by an approved college; such credits, however, may not exceed one year of the required two years of college study.

The Duke University School of Law has been approved by the Veterans Administration for law study under the provisions of the Vocational Rehabilitation Act, Public Law 16, and the Servicemen's Readjustment Act of 1944, Public Law 346, often referred to as the "G.I. Bill of Rights." An office is maintained at the University for the handling of the interests of the many students studying under the supervision of the Veterans Administration.

#### **COMBINED COURSE**

A number of colleges, upon application by their students, have permitted those who have completed three years of undergraduate work to enter the Law School of Duke University and upon the satisfactory completion of the first year of law school work to receive their Bachelor of Arts degree from such colleges. It is suggested that students desiring to enter Duke University School of Law make inquiry of their proper college authorities regarding this point.

A student from an undergraduate college of Duke University who has completed three years of study may apply to that college to enroll in a combined course wherein his first year of law study may be accepted toward the Bachelor of Arts degree, and, upon the completion of four additional semesters of law study, he will receive the Bachelor of Laws degree.

### ADMISSION TO ADVANCED STANDING

Any person who has complied with the requirements for admission set forth in this announcement prior to the commencement of his law study, who presents evidence of the satisfactory completion of at least one year of study at any law school which is a member of the Association of American Law Schools, and who is eligible for readmission to the law school from which he proposes to transfer, may be admitted to advanced standing, subject to such rules as would be applicable to students in this School having a comparable scholastic record.

### CANDIDATES FOR GRADUATE DEGREES

Applications for admission to graduate study should be addressed to the Dean of the Law School and should include transcripts of records of legal and pre-legal work.

### REGISTRATION

Registration must be completed on the first day of each semester. Instruction will begin in all classes on the following day. The applicant must obtain from the Dean of the Law School an admission card, indicating that he is entitled to register. Registration is conducted in the Law Building. All students, both old and new, are required to register at the beginning of each semester, at which time class schedules and course cards must be filled out and approved. Students who register in any semester at a date later than that prescribed are required to pay to the Treasurer of the University a penalty of \$5.00 for late registration unless excused therefrom.

### REGISTRATION FOR BAR EXAMINATION

Many states now require that a student, prior to or shortly after beginning the study of law, register with the board of bar examiners of the state if he intends to practice therein. Each student should write to the secretary of the board of bar examiners of the state in which he plans to practice and ascertain if that state makes this requirement.

### CONDUCT OF STUDENTS

All students are admitted subject to the rules of the University and of the School of Law, and continuance in the School is conditioned upon the observance of such rules.

### FEES AND EXPENSES

Tuition fees are due at the beginning of each semester. The tuition fee is \$175.00 a semester. In addition, a general fee of \$50.00 per semester is required in lieu of separate fees for matriculation, medical service, and the like.

The admission of an applicant is not final unless, within two weeks from the time he is notified that his application has been approved, he deposits the sum of \$25.00 with the Treasurer of the University. This deposit will not be returned. It will be credited to the account of the

student or, if the student is entitled to the benefits of the Servicemen's Readjustment Act or the Vocational Rehabilitation Act, it will be refunded upon his matriculation.

An athletic fee of \$5.00, plus any Federal taxes that might be imposed, payable at the beginning of each Fall and Spring semester, is optional. Payment of the athletic fee entitles the student to admission to all athletic events on the campus.

The payment of the general fee entitles the student to full medical and surgical care, with the exceptions noted below. This service is under the direction of the University Physician with the co-operation of the staff of Duke Hospital. It includes hospitalization, medical and surgical care, drugs, dressings, X-ray studies, and ward nursing. A charge for board is made at the same rate as in the University dining halls. Refraction of eyes, treatment of teeth and of all chronic conditions, such as the removal of diseased tonsils, are not included in this service. The cost of any necessary braces and orthopedic appliances as well as of special nursing must be borne by the student.

### DINING SERVICE

Food service is cafeteria style. The cost of meals approximates \$1.25 to \$1.75 per day, depending on the need and taste of the individual. The dining facilities on the West Campus include three cafeterias with multiple-choice menus and the Oak Room where full meals and a la carte items are served.

### THE GRADUATE DORMITORY AND THE "LAW CABINS"

Furnished double rooms may be secured in the graduate dormitory on the West Campus at \$62.50 per person per semester. A few single rooms are available at \$87.50 per semester.

A group of log cabins, a part of the dormitory system, especially designed as a study center for law students, is located in the Duke Forest about five minutes' walk from the Law Building. These cabins, five in number, including a large cabin for use as a social hall, house thirty-two students. All rooms in the law cabins are furnished double rooms and may be secured at \$40.00 per person per semester.

These charges in each case include heat, light, water, and janitorial service but do not include pillows or bed clothing of any kind.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The fee is deducted from the room rental charge at the time of registration for the semester; it is not refunded unless application for the refund is made sixty days prior to the registration date of the semester.

Each student is expected to supply necessary sheets, blankets, pillows, rugs, and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

Law students are advised to make early application, since assignment of rooms is made considerably in advance of the beginning of each semester. The applicant should state that he has been accepted for admission to the School of Law. All dormitory or cabin rooms are to be occupied under the rules and regulations established by the University. Law students are not required to live in the University dormitories.

## **BACHELOR OF LAWS DEGREE**

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### **REQUIREMENTS FOR THE BACHELOR OF LAWS DEGREE**

Upon favorable recommendation of the Faculty, the degree of Bachelor of Laws will be conferred on students who shall have successfully completed six semesters' study of law, the last two semesters of work immediately preceding the granting of such degree having been completed in this School.

A student shall be deemed to have completed successfully six semesters' study of law if during this period he has

(1) secured a passing grade in courses aggregating the number of semester hours in the first-year program, plus forty-eight semester hours, including all courses required for graduation;

(2) secured in every required course a grade not requiring repetition thereof; and

(3) secured an average grade at least five points above passing in all work taken other than first-year courses, or, if the grade in such work is lower than that above specified, an average grade of five points above passing in all work taken.

Students who have spent only their last two semesters of study in residence in this School must have received an average grade at least five points above passing for that year.

### **MINIMUM AND MAXIMUM STUDENT LOADS**

No regular student is permitted to take less than ten course hours per semester. No first-year student is permitted to take courses in excess of the first-year program.

Second- and third-year students are not permitted to take for credit more than fifteen course hours per semester; nor to audit and take for credit more than sixteen course hours per semester. In exceptional cases, students may petition the Faculty for permission to take more or less than the prescribed maximum or minimum loads.

## **GRADUATE WORK IN LAW**

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### **OBJECTIVES OF THE GRADUATE STUDY PROGRAM**

The graduate program of the School of Law is framed with a view to the encouragement and recognition of legal scholarship. It is addressed to the needs of those who have objectives consistent with the purposes of



graduate legal education. It provides training for the qualified student who aspires to a teaching career, or who wishes to become proficient in a special field of the law, to do serious legal research, to prepare himself for a public law practice in or out of government, or to acquire a broader and deeper legal education than the undergraduate curriculum offers.

#### **ADMISSION TO CANDIDACY FOR THE DEGREE OF MASTER OF LAWS**

Any person who has received the first degree in law from a law school qualified for membership in the Association of American Law Schools may be admitted as a candidate for the degree of Master of Laws, provided he satisfies the Committee on Graduate Study that his objective in desiring to do graduate work in law is consistent with the purposes for which the program is offered, and provided he demonstrates to the Committee, on the basis of his law school record, his capacity to take and profit by graduate work in law. In exceptional cases an applicant who does not meet the first of the above requirements may, on vote of the Faculty, be admitted to candidacy for this degree if he is able to demonstrate that he is specially qualified, as by reason of practice or teaching. Normally the applicant will be required to show a level of scholarship appreciably higher than that required for the first degree in law at the institution from which he received that degree.

#### **REQUIREMENTS FOR THE DEGREE OF MASTER OF LAWS**

The degree of Master of Laws is reserved for students who, having demonstrated their capacity for graduate work in law, maintain a level of scholarship substantially higher than that required for the degree of Bachelor of Laws in a course of study which involves distinctively graduate work.

The candidate for this degree is required to complete a course of study comprising not less than twenty nor more than twenty-six semester hours, or approved research equivalent thereto. Two full semesters are required for the completion of this program. A candidate for this degree is required to include in his course of study at least two of the following courses: International Law, Jurisprudence, and Legal History. In addition to the minimum requirement of twenty semester hours, the candidate is required to submit an essay representing substantial research on a legal subject. This essay is to be prepared under the supervision of the instructor in charge of the field in which the research is done.

The candidate's course of study will be selected, ordinarily, from the following list of courses: Public Control of Business, Public Control of Business Seminar, Jurisprudence, Conflict of Laws, International Law, Legal History, Banking, Corporate Planning, Debtors' Estates, Insurance, Contract Planning and Drafting, Corporate Reorganization, Credit and Insolvency (advanced course), Family Law, Family Law Seminar, Future Interests, Tax and Estate Planning, Criminal Law and Procedure (advanced course), Labor Relations, Labor Standards, Labor Law Seminar, Federal Taxation I, Federal Taxation II, and State Taxation. This program of study is not inflexible. In appropriate cases the candidate

will be encouraged to take related work in other departments of the University. Other courses of comparable content may be substituted for those listed. In special circumstances, credit not in excess of two hours per semester may be arranged for special, supervised research projects.

#### **ADMISSION TO CANDIDACY FOR THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE**

Any person holding the degree of Master of Laws from this or any other law school which is qualified for membership in the Association of American Law Schools may, on vote of the Faculty, be admitted to candidacy for the degree of Doctor of Juridical Science, provided he completed the work for the Master's degree with distinction.

#### **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE**

Upon favorable recommendation of the Faculty, the degree of Doctor of Juridical Science will be conferred on students admitted to candidacy for that degree who complete and submit a monograph or series of essays suitable for publication and deemed by the Faculty to be of distinguished character. At least one academic year, and, in the absence of an extension granted by the Faculty, not more than three years, must elapse between the award of the Master's degree and the award of the degree of Doctor of Juridical Science. Students who have received the degree of Master of Laws from another law school must spend at least two full semesters engaged in research at this School, and in addition may be required to complete a course of study prescribed by the Committee on Graduate Study. The monograph or series of essays required may be based upon, or be an extension of, the essay required for the Master's degree, provided substantial additional research is represented.

#### **POST-GRADUATE AND REFRESHER COURSES**

The School of Law provides instruction for students not meeting the requirements for admission to candidacy for graduate degrees who desire refresher courses or who desire simply to complete a fourth year of law school work. The successful completion of the courses taken by such students may be evidenced by certificate of the Dean.

### **FACILITIES AND ACTIVITIES**

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#### **THE LAW SCHOOL BUILDING**

The Law Building, like all other structures on the main campus of Duke University, is in Tudor Gothic style of colorful Cambrian stone from the Duke University quarries. It was occupied by the School of Law for the first time in September, 1930.

#### **THE LEGAL AID CLINIC**

A Legal Aid Clinic was organized at the School of Law in 1931 under the direction of Professor John S. Bradway. The purpose of the Clinic is threefold: to give the student experience in handling actual cases; to

develop creative skills, techniques, and mental habits; to encourage a sense of responsibility to client, court, profession, and community.

The Legal Aid Clinic is in effect an active law office offering the student, under supervision, experience in interviewing actual clients, investigation of facts, preparing cases for adjustment or for trial in court, writing legal documents, briefing, and other tasks familiar to the practicing attorney. Approximately four hundred persons a year apply for the services of the Clinic. Only those applicants who are unable to pay counsel fees, and only those cases where there is no opportunity for a contingent fee are accepted.

The activities of the Clinic are centered in a suite of offices in the Law School building, and in an interviewing office in the business center of Durham. In addition to the Director, a staff of five members of the North Carolina State Bar assists in the educational and supervisory activities of the Clinic and in representing its clients in court proceedings.

#### **LAW AND CONTEMPORARY PROBLEMS**

The School of Law publishes a quarterly, *Law and Contemporary Problems*, under the editorship of Professors Brainerd Currie, Robert Kramer, and John deJ. Pemberton, Jr. This periodical, now in its fourteenth volume, presents in each issue a symposium on a problem of current importance, in which the interrelated social and economic, as well as legal, factors are discussed by writers of competence in these respective fields.

#### **JOURNAL OF LEGAL EDUCATION**

A new quarterly, the *Journal of Legal Education*, is edited at the School of Law under the direction of Professors Brainerd Currie and Robert Kramer. The publication serves as the organ for the Association of American Law Schools, providing a clearing house for ideas and professional studies in the constantly expanding field of legal education.

#### **THE DUKE BAR ASSOCIATION**

The Duke Bar Association was established in the spring of 1931. It is open to all the students of the Law School and is organized along the lines of the American Bar Association. Its purpose is to introduce the student to the problems considered by the bar in professional organizations and to develop professional consciousness and responsibility. A Faculty Committee on Student Affairs serves as general adviser to the student officers.

#### **MOOT COURTS**

A program of student Moot Court arguments is conducted under the supervision of the Faculty as a part of the courses in Research and Writing in which all students are required to participate.

#### **SCHOLARSHIPS AND LOAN FUNDS**

Scholarships covering tuition (\$350) are available to a limited number of first-year students, graduates of approved American universities and colleges, who are in need of such assistance. Applicants must have



made excellent records in their college work and must show unusual promise of success in the study of law.

Applications for scholarships should be presented to the Dean of the Law School, together with a transcript of college work and letters of recommendation from responsible persons, certifying to the character and fitness of the applicant.

Other scholarships are awarded, as funds may permit, to high-ranking students who have spent a year or more at the Law School. There are also a number of positions as assistants in the Law Library and as research assistants which are open to students, particularly in their second or third year, who do not receive other aids from the University.

The University administers certain endowed loan funds for the benefit of students who are not able to meet their expenses, for the purpose of helping worthy students who have established a satisfactory record at the School to continue their education.

Two funds have been provided out of which small loans may be made to tide students over temporary financial emergencies arising during the course of the year. One of these was supplied by the Law School Guild and is limited as to amount and duration of loan. The other is due to the generosity of Mr. P. Frank Hanes of the Winston-Salem bar and is limited to the needs of selected students. These funds are administered by a committee of the Faculty.

#### **GRADUATE LAW FELLOWSHIPS**

Two graduate fellowships carrying a grant of \$1,500 each are awarded each year. To be eligible for these fellowships, applicants must have completed with distinction the work required for the first degree in law at this Law School or some other school approved by the Association of American Law Schools, and must have been admitted to candidacy for the LL.M. or J.S.D. degree. Preference will be given to students who plan to make law teaching a career. All applications should be addressed to the Dean of the School of Law, Duke University. Fellowships will be awarded by the law faculty on recommendation of the Committee on Graduate Study.

#### **WILLIS SMITH PRIZE**

Mr. Willis Smith, a member of the Raleigh bar and Chairman of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of law school work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose. To qualify for this prize the student must have made an outstanding record throughout his law school course.

#### **JAMES F. BYRNES SENATE PRIZE**

Delta Theta Phi Foundation, Inc., awards each year to that member of the first year class of the Law School who has completed the work of the first year with the highest scholastic average during that year a cash prize of fifty dollars.



### ORDER OF THE COIF

A chapter of the Order of the Coif, national legal scholarship society, has been established at Duke University School of Law. Its purpose is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Election is restricted to the ten per cent of the graduating class who have attained the highest rank in their law school work.

### LEGAL FRATERNITIES

Three of the largest national legal fraternities maintain active chapters at the School of Law. The Charles Evans Hughes Inn of Phi Delta Phi International Legal Fraternity was founded at the School of Law in 1931 and remained active throughout the war years. The Wiley Rutledge Chapter of Phi Alpha Delta Law Fraternity was founded at the School in 1946. In 1947 the James F. Byrnes Senate of Delta Theta Phi Law Fraternity was installed at the School. All three fraternities seek to further professional standards. Students may be elected to membership at any time following their first full semester of law study. During the school year the fraternities sponsor separate programs of luncheons featuring prominent local speakers from the profession, an annual address by an attorney of national prominence, and occasional social functions.

### RECREATIONAL FACILITIES

The University is located about two miles from the business district of Durham on wooded hills constituting part of the five-thousand-acre Duke Forest, which is maintained by the School of Forestry. Within a short distance from the campus are facilities for golf, horseback riding, and woodland hiking. Students of the Law School are entitled to the use of the University gymnasium, tennis courts, swimming pool, and similar privileges without cost. Motion pictures are shown in Page Auditorium twice a week, and concert programs, recitals, lectures, and plays are presented frequently.

### PROGRAM OF INSTRUCTION

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The program of instruction of the School of Law has been thoroughly revised as a result of studies made by the Faculty. The curriculum had become overcrowded. For years new courses have been added at this and other schools as new fields of law have become important; old courses have been retained. Students who wished to specialize in particular fields often found it necessary to omit some of the older, more fundamental courses. Insufficient attention had been given to legal writing, the drafting of legal instruments, and legal planning.

The newly adopted curriculum is designed to insure that students may prepare to specialize in practice without foregoing any part of the basic legal education required for general practice and desirable for all specialists. Courses have been combined; duplications in courses have been

eliminated. The larger part of students' third year has been opened for studies of specialties. New courses and seminars have been added, especially in the third year in which teaching methods will be different from those used in the older courses. In these courses and seminars legal writing and drafting and legal planning will be emphasized.

The courses offered are listed below. They are grouped under three headings: First-Year Program; Recommended Second-Year Program, and Third-Year Courses.

**The First-Year Program** is prescribed. It includes basic courses in the fields of contracts, business associations, property (including sales and other chattel transactions), and torts. These courses serve also to acquaint the student with the nature of the judicial process (which is stressed in Chattel Transactions), the court system and court procedure (stressed in Torts), and legal history (stressed in the second property course and in other courses). In the field of public law, legislation and the legislative process are studied in the first semester; there follows in the second semester a course in the fundamentals of criminal law. A course in research and writing (which is continued throughout the second year), after consideration of how the law is found in law books, trains students in writing memoranda of law and legal arguments and in drafting legal documents; the course emphasizes, for each student, the law of the state in which he intends to practice, and introduces students to the art of legal planning. It includes the preparation of briefs and the arguing of moot court cases.

**The Recommended Second-Year Program** comprises nearly all the other basic courses which all students need regardless of what kind of law practice they plan to enter and the courses prerequisite to third-year work in special fields and in legal planning. Third-year courses may be substituted for courses in this program with the consent of the instructor and Dean. The research and writing course continues throughout the year. The basic work in property and business associations is completed. In the field of business transactions, the students study negotiable instruments and credit. A course in federal taxation, basic to advanced third-year work for specialists, adequately covers the subject for students not planning to specialize in it. Legal and equitable remedies, and court procedure in civil cases, are studied in the course in remedies. Students continue their study of public law in courses in constitutional and administrative law.

**The Third-Year Courses** (of which an aggregate of 10 to 15 hours each semester is to be selected by each student) are designed to emphasize legal planning and drafting and to enable students to equip themselves to specialize in particular fields. The faculty recommends that all students complete their basic legal education by taking courses in evidence, legal ethics, and public control of business. There are also fundamental courses in legal history and jurisprudence and in conflict of laws and international law. The rest of the third-year courses are in specialties; they are grouped below under the headings (1) business (including *inter alia* advanced corporation law), (2) estates, family, and property, (3) procedure,

practice, and local law, and (4) public law (including *inter alia* labor law and taxation). A number of these specialty courses (those preceded by asterisks in the list below) emphasize legal planning and drafting. Each student is required to include two of these courses in his third-year program; enrollment in each is limited.

### THE FIRST-YEAR PROGRAM

#### SEMESTER HOURS *Fall Spring*

Chattel Transactions .....	2	2
Contracts .....	4	2
*Estates in Land [Including some Future Interests and Landlord and Tenant] .....	1	3
Research and Writing .....	1	1
*Torts [Including some Procedure] .....	3	2
Legislation .....	3	
Business Associations I [Agency, Partnership, Introduction to Corporations] .....		2
Criminal Law .....		2
	<hr/> 14	<hr/> 14

\*Torts to be four hours first half of first semester, two hours second half; Estates in Land to start in middle of first semester as two-hour course.

### THE RECOMMENDED SECOND-YEAR PROGRAM

#### SEMESTER HOURS *Fall Spring*

Constitutional Law [Including Federal Jurisdiction] ....	3	2
Remedies .....	3	3
Research and Writing II [Required] .....	1	1
Business Associations II [Including Accounting] .....	3	
Conveyancing .....	3	
Negotiable Instruments .....	2	
Administrative Law .....		3
Credit Transactions .....		3
Federal Taxation I .....		3
	<hr/> 15	<hr/> 15

### THE THIRD-YEAR COURSES

Students are to select courses aggregating 10 to 15 hours each semester. Every student must select two of the starred courses listed under "C. Specialties." These courses emphasize legal planning and drafting. Enrollment in each of them is limited.

**A. Recommended for General Practice.**

Evidence .....	2	2
Public Control of Business .....	2	
Legal Ethics .....		1
Wills .....		2

**B. Advanced Courses.**

Jurisprudence .....	2	
Conflict of Laws .....		2
International Law .....		3
Legal History .....		2

**C. Specialties.****I. Business.** (See also "IV. Public Law.")

*Banking .....	2	
*Corporate Planning .....	2	
Debtors' Estates .....	2	
Insurance .....	2	
*Contract Planning and Drafting .....		1
*Corporate Reorganization .....		2
*Credit and Insolvency—Advanced Course .....		2

**II. Estates, Family, Property.**

Family Law .....	2	
Future Interests .....	2	
Trusts .....	2	
Family Law Seminar .....		2
*Tax and Estate Planning (Also listed under "IV. Public Law") .....		2

**III. Procedure, Practice and Local Law.**

	SEMESTER HOURS	
	Fall	Spring
*Legal Aid Clinic .....	2	2
Case Studies (repeated each semester)	Credit to be arranged	
North Carolina Practice .....		2
Damages .....		2
North Carolina Statutes and Decisions .....		2

**IV. Public Law.**

Criminal Law and Procedure—Advanced .....	2	
*Constitutional Law and Federal Courts Seminar .....		2
Labor Relations [National Labor Relations Act; collective bargaining; strikes, etc.] .....	3	
Labor Standards [Workmen's Compensation, Fair Labor Standards Act, etc.] .....		2
*Labor Law Seminar [Negotiations; contract clauses; grievances; arbitration, etc.] .....		2
Municipal Corporations .....	2	
*Public Control of Business Seminar .....		3
Federal Taxation II .....	3	
State Taxation .....	2	
*Tax and Estate Planning .....		2
(Also listed under "II. Estate, Family, Property")		



## DESCRIPTION OF COURSES

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### 1. GENERAL COURSES

- Conflict of Laws.**—Two hours a week, second semester. Mr. CURRIE
- Damages.**—Two hours a week second semester. Mr. McDERMOTT
- Family Law.**—Two hours a week first semester. Mr. BRADWAY
- Seminar in Family Law.**—Family Law is prerequisite. Two hours a week second semester. Mr. BRADWAY
- Jurisprudence.**—Two hours a week first semester. Mr. KRAMER
- Legal History.**—Two hours a week second semester. Mr. BOLICH
- North Carolina Statutes and Decisions.**—Not offered in 1949-50. Two hours a week second semester. Mr. BRYSON
- Torts.**—Four hours a week first half of first semester, two hours a week second half of first semester, two hours a week second semester. Mr. MAGGS
- Trusts.**—Two hours a week first semester. Mr. LOWNDES

### 2. BUSINESS COURSES

- Banking.**—Two hours a week first semester. Mr. PEMBERTON
- Business Associations I.**—Two hours a week second semester. Mr. LATTY
- Business Associations II.**—Three hours a week first semester. Mr. LATTY
- Contracts.**—Four hours a week first semester, two hours a week second semester. Mr. SHEPHERD
- Contract Planning and Drafting.**—One hour a week second semester. Mr. SHEPHERD
- Corporate Planning.**—Two hours a week first semester. MESSRS. LATTY AND KRAMER
- Corporate Reorganization.**—Two hours a week second semester. MESSRS. LATTY AND PEMBERTON
- Credit and Insolvency.**—Two hours a week second semester. Mr. PEMBERTON
- Credit Transactions.**—Three hours a week second semester. Mr. PEMBERTON
- Debtors' Estates.**—Two hours a week first semester. Mr. PEMBERTON
- Insurance.**—Two hours a week first semester. Mr. McDERMOTT
- Negotiable Instruments.**—Two hours a week first semester. Mr. PEMBERTON
- Public Control of Business.**—Two hours a week first semester. Mr. CURRIE
- Public Control of Business Seminar.**—Three hours a week, second semester. MESSRS. CURRIE AND LIVENGOOD  
and members of the ECONOMICS DEPARTMENT STAFF

## 3. PROPERTY COURSES

**Chattel Transactions.**—Two hours a week throughout the year.

MR. LATTY

**Conveyancing.**—Three hours a week first semester.

MR. BOLICH

**Estates in Land.**—Two hours a week second half of first semester, three hours a week second semester.

MR. BOLICH

**Future Interests.**—Two hours a week first semester.

MR. BOLICH

**Tax and Estate Planning.**—Taxation I and Future Interests are prerequisites to enrollment in the seminar. Two hours a week second semester.

MESSRS. BOLICH, KRAMER, AND LOWNDES

**Trusts.**—Two hours a week first semester.

MR. LOWNDES

**Wills and Administration of Estates.**—Two hours a week second semester.

MR. McDERMOTT

## 4. PUBLIC LAW COURSES

**Administrative Law.**—Three hours a week second semester. MR. KRAMER

**Constitutional Law.**—Three hours a week first semester, two hours a week second semester.

MR. MAGGS

**Constitutional Law and Federal Courts Seminar.**—Two hours a week second semester.

MR. MAGGS

**Criminal Law.**—Two hours a week second semester.

MR. LIVENGOOD

**Criminal Law and Procedure (Advanced).**—Two hours a week second semester.

MR. LIVENGOOD

**Federal Taxation I.**—Three hours a week second semester.

MR. LOWNDES

**Federal Taxation II.**—Three hours a week first semester.

MR. LOWNDES

**International Law.**—Three hours a week second semester.

MR. WILSON

**Labor Law Seminar.**—Prerequisite: Labor Relations. Two hours a week second semester.

MR. LIVENGOOD

**Labor Relations.**—Three hours a week first semester.

MR. LIVENGOOD

**Labor Standards.**—Labor Relations not a prerequisite. Two hours a week second semester.

MR. LIVENGOOD

**Legislation.**—Three hours a week first semester.

MR. KRAMER

**Municipal Corporations.**—Two hours a week first semester.

MR. McDERMOTT

**Public Control of Business.**—Two hours a week first semester.

MR. CURRIE

**Public Control of Business Seminar.**—Three hours a week second semester.

MESSRS. CURRIE AND LIVENGOOD  
and members of the ECONOMICS DEPARTMENT STAFF

**State Taxation.**—Two hours a week first semester.

MR. LOWNDES

**Tax and Estate Planning.**—Two hours a week second semester.

MESSRS. BOLICH, KRAMER, AND LOWNDES

**5. PROCEDURE AND PRACTICE COURSES**

**Case Studies.**—Hours and credits to be arranged.

INSTRUCTOR TO BE ANNOUNCED

**Evidence.**—Two hours a week throughout the year. MR. McDERMOTT

**Legal Aid Clinic.**—Two hours a week throughout the year.

MR. BRADWAY

**Legal Ethics.**—One hour a week second semester.

MR. BRADWAY

**North Carolina Practice.**—Two hours a week second semester.

MR. BRYSON

**Remedies.**—Three hours a week throughout the year.

MR. STANSBURY

**6. LEGAL RESEARCH AND WRITING**

**Research and Writing I.**—One hour a week throughout the year.

MESSRS. STANSBURY, BRYSON, AND BRADWAY,  
AND THE LEGAL AID CLINIC STAFF

**Research and Writing II.**—One hour a week throughout the year.

MESSRS. STANSBURY, BRYSON, AND BRADWAY,  
AND THE LEGAL AID CLINIC STAFF





# THE SCHOOL OF MEDICINE

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., M.D., D.Sc., LL.D.  
*Dean*

1948-1949

ANNOUNCEMENTS FOR 1949-1950

Winter Quarter begins January 3, 1949, ends March 19;  
Spring Quarter begins March 28, ends June 11; Summer  
Quarter begins July 5, ends September 17; Autumn Quar-  
ter begins October 3, ends December 17.

## GENERAL STATEMENT

Duke University School of Medicine and Duke Hospital were established in 1930, through the munificent gift of the late James B. Duke. The School of Medicine has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and is also a member of the Association of the American Medical Colleges. On October 4, 1948, two hundred and seventy-eight students were enrolled.

### AIMS OF THE SCHOOL

Duke University School of Medicine, from its beginning in 1930, has maintained as its major objectives: (a) the cultivation and teaching of medicine on a strictly scientific basis; (b) the correlation of medical research with medical teaching at all levels of its teaching; and (c) the continuous search for and experimentation with new or improved methods of teaching scientific medicine. In order to attain these objectives, the School has been organized, its physical plant planned, and its administrative structure constituted so that there exists the closest possible academic and physical relationship between undergraduate and graduate work in the University and the School of Medicine, and also between the basic medical sciences and the clinical sciences within the School and its integrated teaching Hospital. The professional staff of the School is composed of two general categories, those with permanent appointment and unlimited tenure, and those with temporary appointment. The latter, the much larger group, is maintained on a highly fluid basis, which makes possible a high degree of selectivity in appointment for academic training and scientific research. The smaller group of permanent appointees has in every individual a background characterized by academic and scientific attainment. The professional, academic, and scientific environment created by the staff is thus such as to engender scientific inquiry and to encourage diligent pursuit of the medical sciences in all their relationships. The staff at all levels devotes its entire professional time to the activities of the School or Hospital.

### FACILITIES OF THE HOSPITAL

Duke Hospital, an integral part of Duke University School of Medicine, has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 579 beds, including 50 bassinets for newborn infants. *Medicine*, including dermatology and neurology, has 77 ward beds; *surgery*, including urology, otolaryngology, ophthalmology, and orthopaedics, 135 ward beds; *obstetrics*, including *gynecology*, 59, and 50 bassinets; *neuropsychiatry*, 9; and *pediatrics*, 40. There are 209 private rooms and semiprivate cubicles,

7 air-conditioned operating rooms, 4 obstetric delivery rooms, and ward and student laboratories. Offices and examining rooms for members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internships and residencies by the Council on Medical Education and Hospitals of the American Medical Association, and the American College of Surgeons.

Duke Hospital and its Out-Patient Clinic were opened for patients on July 21, 1930. Through December 31, 1948, 351,150 individuals have been examined, diagnosed, and treated. The average daily census of hospital patients during the past year was 452.1; 92,938 visits were made to the Out-Patient Clinic during the same period. Twenty-one per cent of the patients come from within a radius of twenty miles, the remaining 79 per cent come from the other 99 counties in North Carolina and from 36 other states and 3 foreign countries. The average distance traveled by the patients is more than seventy miles.

The Private Diagnostic Clinic was organized to co-ordinate the diagnostic studies, and to give better care for the complicated problems arising in the examinations of private patients. The Clinical Staff of Duke Hospital and School of Medicine forms the professional staff of this clinic, while the financial side is handled by a business-manager. The offices and examining rooms are in Duke Hospital, and all the laboratory and diagnostic facilities of the Hospital and School of Medicine are utilized by the Clinic.

### LIBRARY

JUDITH FARRAR, A.B., B.S., *Librarian.*

MILDRED PERKINS FARRAR, A.B., *Assistant Librarian.*

*"To study the phenomena of disease without books is to sail an uncharted sea, while to study books without patients is not to go to sea at all."*—SIR WILLIAM OSLER.

In addition to the General Library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 879,701 volumes available for medical students, Duke Hospital Library contains 48,000 volumes of American and foreign medical literature and subscribes to 545 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:30 A.M. to 10:30 P.M. for the students, nurses, staff, and medical profession.

### CURRICULUM OF THE SCHOOL OF MEDICINE

The curriculum, shown below, consists of two semesters in the first year and three quarters each in the second, junior and senior years. There is no summer quarter between the first and second year, but in the two clinical years the subjects of the autumn, winter and spring terms are repeated in the summer quarter. This accelerated schedule is optional,\* and students may take the two semesters of their first year, and three quarters in each of their subsequent years, and receive their certificates in four calendar years, *or*, if they receive permission from the Curriculum Committee, they may at the end of their second year take the clinical

\* See footnote on the next page.

quarters given during the summers and receive their certificates in three and one quarter calendar years.

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the clinical staff assist in the teaching of preclinical subjects and demonstrate to the students of the first two years patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. In the junior and senior years, preclinical instructors assist the clinical staff in presenting the underlying basis of disease.

The free time in this curriculum may be spent in elective work or anything else the student wishes to do. No credits are given, but opportunity is provided for each student on his own initiative to obtain additional training which he may feel to be necessary or desirable. Elective courses have been organized for small groups, or the time may be utilized in independent work (including research) in any department, clinical or preclinical. Arrangements for taking such courses or doing other work are to be made through the Curriculum Committee.

It is hoped that many students will migrate to other medical schools for one or more quarters. Those who wish to do so, or to substitute a schedule different from that listed below, must have their programs approved in advance by the Curriculum Committee, and afterwards must present evidence that they have completed work comparable to that of the curriculum during the quarters in which they were away or were following an altered schedule.

#### OPTIONAL ACCELERATED SCHEDULE\*

(The hours for these courses will be posted on the bulletin board.)

##### FIRST YEAR

FIRST SEMESTER:	HOURS
October 3, 1949, to February 8, 1950.	
Anatomy (including histology and neuroanatomy) .....	642
SECOND SEMESTER:	
February 15 to June 10, 1950.	
**Physiology .....	339
†Biochemistry .....	284
Psychobiology .....	15
Free time .....	5

##### SECOND YEAR

AUTUMN QUARTER (4th):	
October 3 to December 17, 1949.	
Pharmacology .....	121
Bacteriology .....	176
Parasitology .....	44
Biostatistics .....	44
Free time .....	44
WINTER QUARTER (5th):	
January 2 to March 17, 1950.	
Pathology .....	220
Clinical Microscopy .....	99

\* This optional schedule may be made compulsory, and a thirteenth elective quarter may be added to the senior year.

\*\* Physiology will start four weeks after the beginning of the second semester, and will run to the end of the semester.

† Biochemistry will start at the beginning of the second semester and will end four weeks before the end of the semester.



## GENERAL STATEMENT

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Physical Diagnosis .....	83
Free time .....	27
SPRING QUARTER (6th) :	
March 26 to June 10, 1950.	
Pathology .....	220
Physical Diagnosis .....	77
Public Health .....	66
Free time .....	66

## JUNIOR YEAR

SUMMER QUARTER (7th) :* July 5 to September 17, 1949.	
Medicine (Junior) .....	429
AUTUMN QUARTER (8th) :* October 3 to December 17, 1949.	
Surgery (Junior) .....	429
WINTER QUARTER (9th) :* January 2 to March 17, 1950.	
Obstetrics and Gynecology (Junior) .....	352
Neuropsychiatry .....	77

## SENIOR YEAR

SPRING QUARTER (10th) :* March 28 to June 11, 1949.	
Medicine (Senior) .....	429
SUMMER QUARTER (11th) :* July 5 to September 17, 1949.	
Surgery (Senior) including urology and orthopaedics.....	363
Electives .....	66
AUTUMN QUARTER (12th) :* October 3 to December 17, 1949.	
Pediatrics .....	226
Surgery .....	41
Final clinical examinations .....	22
Neuropsychiatry .....	41
Preventive Medicine .....	33
Electives .....	66

## SUMMARY

Total number of hours in curriculum.....	5,146
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### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

After the satisfactory completion of six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done. No credit toward this degree is given for additional college work. All students in good standing are encouraged to undertake such investigative work as they may elect with the approval of the head of the department

\* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. The above schedule merely illustrates the program of one group.

in which they wish to work. All requirements must be completed three months prior to the date on which the B.S. degree is requested.

### REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE

The degree of Doctor of Medicine is conferred on those who have completed, to the satisfaction of the Executive Committee, the twelve quarters of 11-12 weeks each of the curriculum of the School of Medicine, the preclinical and clinical examinations, and have signed an agreement that they will spend at least two years of the succeeding three years in hospital or laboratory work acceptable to the Executive Committee. As a guarantee of this pledge the diploma is deposited in the Treasurer's Office until after the completion of this training. Failure to fulfill this agreement constitutes a waiver of any claim to possession of the diploma and the degree of Doctor of Medicine.

### APPLICATION FOR ADMISSION

Application forms may be obtained by writing to the Committee on Admission, Duke University School of Medicine, Durham, N. C. A check or post office money order for \$5, payable to Duke University School of Medicine, must accompany each application. This is not refundable. If further information is required after the Committee has studied the completed application, a personal interview with the Committee on Admission or a Regional Representative is arranged for the applicant. The candidate then is notified as soon as possible whether he has been accepted or declined; if accepted, he must send a deposit of \$50 within two weeks to insure enrollment. This money is applied toward the tuition. The next first-year class will be admitted October 3, 1949. Applications should be submitted by December 1st, of the preceding year. Due to the large number of applicants to all medical schools, candidates are advised to apply to at least four schools. The number of students in each class is limited to 76, but only those students will be accepted who give promise of being a credit to the School and the medical profession. Women are received on the same terms as men. In the event of vacancies, students from other medical schools may be considered for admission to any quarter for which their previous training has fitted them. Each application for advanced standing will be considered upon its own merits.

### REQUIREMENTS FOR ADMISSION

*"I request that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination and application evincing a wholesome and real ambition for life."*—JAMES B. DUKE.

*Intelligence and character are the essential qualifications for admission.*

The minimum requirements for admission to this School include approved college credits of not less than ninety semester hours, which shall include adequate preparation in English, mathematics, physics, biology, and chemistry. This preparation should be obtained in college courses of one-year duration, except in English and chemistry. In those subjects, two years are recommended. The second year in English should

be chiefly composition and theme writing. The first year of chemistry should be general (inorganic), and the second, analytic and organic chemistry.

The premedical students should be aware of the importance of a well-rounded general education as a preparation for the study of medicine and not limit himself to scientific courses. He would be better advised to secure a knowledge of the principles and a thorough appreciation of the interrelations of the basic sciences than to accumulate credits in many courses. He should learn how to work independently, to observe critically, and to analyze, rather than simply store, the information presented. His choice of studies, beyond those required for admission, should be governed by his own chief interests and by the intellectual stimulus to be derived from the work. His major interest may be in any field, scientific or otherwise, and should provide an opportunity for the demonstration of his real ability. In general, he should avoid courses in subjects which are included in the medical curriculum.

The selection of students is based upon the quality rather than the quantity of preparation and upon demonstrated evidence of personal attributes of intelligence, character, and general fitness for the study and practice of medicine. In considering an applicant many sources of information may be consulted including (1) his curricular and extracurricular college record, (2) carefully prepared, confidential appraisals by teachers who know him personally, (3) his percentile rating on the Professional Aptitude Test,\* and (4) the results of an interview with members of the Admission Committee or one of its Regional Representatives.

#### REGIONAL REPRESENTATIVES OF THE COMMITTEE ON ADMISSION

Birmingham, Alabama.....	M. Y. DABNEY
Birmingham, Alabama.....	RAYMOND C. RAMAGE
Pasadena, California.....	ROBERT H. PUDENZ
San Francisco, California.....	EMILE F. HOLMAN
San Francisco, California.....	CHARLES H. DANFORTH
Montreal, Canada.....	WILDER PENFIELD
Denver, Colorado.....	F. VERNON ALTVATER
New Haven, Connecticut.....	ALLEN K. POOLE
Jacksonville, Florida.....	E. B. DUNLAP, JR.
Jacksonville, Florida.....	EDWARD JELKS
Atlanta, Georgia.....	JAMES E. PAULLIN
Savannah, Georgia.....	VICTOR H. BASSETT
Chicago, Illinois.....	GEORGE H. GARDNER
Iowa City, Iowa.....	ARTHUR L. BENTON
Iowa City, Iowa.....	PHILIP C. JEANS
Wichita, Kansas.....	THOMAS JAGER
Louisville, Kentucky.....	MALCOLM D. THOMPSON
Louisville, Kentucky.....	S. I. KORNHAUSER
New Orleans, Louisiana.....	PHILIP H. JONES, JR.
Baltimore, Maryland.....	JOHN T. KING, JR.
Baltimore, Maryland.....	GEORGE W. CORNER
Boston, Massachusetts.....	MARSHALL N. FULTON
Boston, Massachusetts.....	JAMES H. CURRENS

\* This test is given at many of the colleges during the autumn term. If information is not available locally, it may be obtained from the Graduate Record Office, 437 W. 59th St., New York 19.

Detroit, Michigan.....	ROY D. MCCLURE
Rochester, Minnesota.....	W. H. HOLLINSHEAD
Kansas City, Missouri.....	RALPH H. MAJOR
St. Louis, Missouri.....	DORIS SURLS WOOLSEY
Butte, Montana.....	CAROLINE MCGILL
New York, New York.....	LAWRENCE S. KUBIE
New York, New York.....	JAMES B. MURPHY
New York, New York.....	BERTRAM J. SANGER
Rochester, New York.....	WILLIAM S. MCCANN
Syracuse, New York.....	PHILIP B. ARMSTRONG
Davidson, North Carolina.....	JOHN W. MACCONNELL
Cleveland, Ohio.....	B. S. KLINE
Columbus, Ohio.....	CHARLES A. DOAN
Dayton, Ohio.....	R. L. JOHNSTON
Toledo, Ohio.....	JOHN L. STIFEL
Oklahoma City, Oklahoma.....	WILLIAM M. TAYLOR
Portland, Oregon.....	KARL H. MARTZLOFF
Johnstown, Pennsylvania.....	W. FREDERIC MAYER
Palmerton, Pennsylvania.....	R. P. BATCHELOR
Pittsburgh, Pennsylvania.....	DAVENPORT HOOKER
Scranton, Pennsylvania.....	GEORGE A. CLARK
Charleston, South Carolina.....	EDWARD F. PARKER, JR.
Charleston, South Carolina.....	J. I. WARING
Columbia, South Carolina.....	WILLIAM WESTON
Columbia, South Carolina.....	JAMES H. GIBBES
Chattanooga, Tennessee.....	RICHARD VAN FLETCHER
Memphis, Tennessee.....	RAPHAEL E. SEMMES
Nashville, Tennessee.....	SAM L. CLARK
Sewanee, Tennessee.....	HENRY T. KIRBY-SMITH
Dallas, Texas.....	A. JAMES GILL
San Antonio, Texas.....	P. I. NIXON
Salt Lake City, Utah.....	ALFRED J. RIDGES
Charlottesville, Virginia.....	HENRY B. MULHOLLAND
Richmond, Virginia.....	I. A. BIGGER
Roanoke, Virginia.....	HUGH H. TROUT
Seattle, Washington.....	R. D. FORBES
Huntington, West Virginia.....	R. M. WYLIE
Madison, Wisconsin.....	WALTER E. SULLIVAN



## FEES AND EXPENSES

All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of \$5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of \$250 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except that students who have been permitted by the Curriculum Committee to spend a quarter at another medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the \$250 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

### Fees and Expenses

Tuition, per quarter.....	\$250	
General Fee, per quarter, including Health, Commencement, and Diploma Fees .....	7.50	
Athletic Fee, admitting student to all athletic contests held on the University campus, during the quarter (optional).....	6	
Room-rent, per quarter* (estimated) .....	58.50	
Board, per quarter (estimated) .....	120 to	130
Laundry, per quarter (estimated) .....	10 to	20
Books, per quarter (estimated) .....	25 to	50
National Board of Medical Examiners, Fees† \$20 (Part I), \$15 (Part II)		
Microscope, ophthalmoscope, otoscope, and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the Univer- sity, per quarter .....	30 to	50
Estimated total expenses, per month .....	150 to	250

### ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the loan fund of the W. K. Kellogg Foundation is available for students who are not financially able to meet their expenses. Medical students, after their third quarter, may apply for loans from these sources. No scholarships are awarded in the School of Medicine. The loan funds are administered in accordance with the following regulations:

1. No loan will be made to a student who violates any of the regulations of the University or who is not doing outstanding classwork.
2. Loans will be made only to students who are taking full courses

\* Rooms may be reserved by medical students in Few Quadrangle. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Applications for rooms, accompanied by a reservation fee of \$25, should be made by writing to Mr. W. E. Whitford, Duke University, Durham, N. C.

† Payable at the beginning of the quarter in which a student is eligible for the examination.

of study that lead to a degree, and all loans must be arranged not later than one week after the beginning of a quarter.

3. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money will be advanced before a note with approved security is in the hands of the Treasurer of the University.

### **MEDICAL CARE**

ELBERT L. PERSONS, A.B., M.D., *Physician in Charge*

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated medical students of the University who have paid the quarterly General Fee. This service is under the direction of the Physician in Charge with the co-operation of the Staff of Duke Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, x-ray studies, and ward but not special nursing. A charge for board is made at the same rate as in the university dining halls. Refraction of eyes and treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernia, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the patient.

### **STUDENT GOVERNMENT**

The members of the student body elect an Honor Council, in which each class is represented. It is the duty of the Honor Council to hear all cases involving breaches of conduct on the part of members of the student body. All new students entering the School are required to comply with this system of government.

### **RESERVE OFFICER TRAINING CORPS**

The course consists of instruction in military medicine throughout the four years of medical school. The student receives compensation during the last two years and while at a required summer encampment. Those completing the program will be offered reserve commissions in the Army Medical Corps. Details of the program, eligibility, compensation, etc., may be obtained by addressing the PMS&T, Duke University School of Medicine.

### **FREDERIC M. HANES FELLOWSHIPS**

Duke medical students after their first year are eligible for a leave of absence and a Fellowship of \$125 per month for full-time research work at Duke with special emphasis in a preclinical subject. These Fellowships will be granted on the recommendation of the Executive Committee, for a period of six months, but may be renewed. Information may be obtained from Dr. D. T. Smith.

**AWARDS TO MEDICAL STUDENTS AND INTERNS**

(Additional information may be obtained from the Dean's Office.)

**BORDEN UNDERGRADUATE RESEARCH AWARD IN MEDICINE**

An award of \$500 may be given to the Duke Senior who, in the opinion of the Executive Committee, has performed the best research work during his or her entire medical course, including that done during the pre-clinical years, and theses for the B.S. degree in Medicine. *Applicants should submit their papers, articles or reprints to the Dean at least three months prior to expected date of graduation.*

**E. MEAD JOHNSON PRIZES IN PEDIATRICS**

An award of Brennemann's Practice of Pediatrics may be given to the Duke Senior who, in the opinion of the pediatric staff, is the outstanding student of pediatrics.

A choice of pediatric books will be awarded to the Duke Pediatric Resident Staff.

**BAGBY AWARD IN PEDIATRICS**

The best Duke Pediatric Intern is eligible for a subscription to the *American Journal of the Diseases of Children*.

**MOSBY AWARDS**

One-year subscriptions to the *Journal of Pediatrics*, *American Journal of Obstetrics and Gynecology*, and *American Heart Journal*, *Surgery*, *American Journal of Syphilis, Gonorrhea, and Venereal Diseases*, *Journal of Allergy*, *Journal of Thoracic Surgery*, and *Journal of Laboratory and Clinical Medicine* may be awarded to the best seniors in pediatrics, obstetrics, medicine, surgery, urology, allergy, thoracic surgery and clinical microscopy, respectively.





# THE SCHOOL OF NURSING

FLORENCE K. WILSON, R.N., B.S., M.A.

*Dean*

1948-1949

ANNOUNCEMENTS FOR 1949-1950

# **THE SCHOOL OF NURSING**

## **GENERAL INFORMATION**

The School of Nursing of Duke University was established in 1931 in association with the School of Medicine of the University and Duke Hospital through the gift of the late James B. Duke. The administrator of the School of Nursing is a member of the Executive Committee of the Medical School, Nursing School and Duke Hospital which promotes the common interests of the three organizations.

The central aim of the educational program is to select young women with aptitudes, interests and personal characteristics needed in nursing, and to provide an educational program enabling them to develop skills, knowledge and attitudes needed for professional nursing service in the community and for maximum personal development.

This program is designed to prepare nurses for:

1. General duty in hospitals.
2. Private duty in hospitals and homes.
3. First level positions under supervision in public health nursing agencies.

## **FACILITIES FOR INSTRUCTION**

The facilities for instruction include the facilities for instruction available in the undergraduate, professional and graduate schools and colleges of Duke University and the clinical facilities of Duke Hospital.

## **CLINICAL FACILITIES**

Duke Hospital has every modern convenience for the diagnosis, proper nursing care, welfare and comfort of the patients including 604 hospital beds, a large public out-patient department, a large private diagnostic clinic and offices and examining rooms for the doctors who serve on the staff of the hospital. There are very close relationships established between the hospital and the Health Departments in North Carolina. A system for referral of patients to the nursing service of the Health Departments has been established between the supervisors of the nursing service in the hospital and the nursing service of the Health Department.

## **LIBRARIES**

The reference library of 2,298 books and periodicals of special interest to students majoring in nursing is located in Baker House. Students may use the general libraries on the East and West Campuses and the Duke Hospital Library. A collection of visual aids including films is being assembled with an index in the library for the use of students and instructors in the School of Nursing.

## **APPLICATION FOR ADMISSION**

Applications for admission to the School of Nursing should be made to the Committee on Admissions of the School of Nursing, Box 3714 Duke Hospital, Durham, N. C. Application Forms will be sent on request.

**ADMISSION**

Since the profession of nursing requires women with high sense of integrity and responsibility, with culture and intelligence whose predominant interest is service, the Admissions Committee will select the applicants who, in its opinion, seem best qualified for nursing. The Admissions Committee must have on file the records indicating the fulfillment of the following requirements before considering an applicant.

1. Graduation from high school with sixteen units of credit as indicated.
2. One year of college with the semester hours of credit as indicated.
3. Aptitude and achievement tests.
4. Three recommendations.
5. Interviews.
6. Physical and dental examination

**SPECIFIC REQUIREMENTS**

I. An applicant for admission to the School of Nursing must present at least sixteen acceptable units of secondary school credit. A unit of credit is allowed for a course of study pursued throughout an academic year at an accredited secondary school, if the course has been completed satisfactorily.

1. Twelve units must be in English, foreign language, history and social studies, mathematics, and natural science; and must include:
  - (a) English—3 units.
  - (b) Algebra—1 unit.
  - (c) Plane geometry—1 unit.
2. Four units may be in the subjects listed above or from those in the following table. The units indicate the maximum amount of credit acceptable in each subject:

<i>Subject</i>	<i>Units</i>	<i>Subject</i>	<i>Units</i>
Agriculture .....	2	Mechanical Drawing .....	2
Art .....	1	Music .....	1
Commercial Subjects .....	3	Physical Geography .....	1
Economics .....	1	Sociology .....	1
Household Economics .....	2	Woodworking, Machine Work ....	2

Other units offered in subjects not included in this list will be considered for acceptance on the basis of full statements transmitted with the applicant's record from the school recommending her.

If students make satisfactory scores on a scholastic aptitude test, the above requirements will not be rigidly adhered to by the School of Nursing.

II. One year of college work is required for admission to the Duke University School of Nursing. This work may be taken at any accredited college or university and should include the following courses:

	S.H.
English .....	6
Chemistry .....	8
Zoology or Biology .....	4
History, Economics or Political Science .....	6
Electives (Foreign Language, Literature, Mathematics, Religion, History, Appreciation of Art or Music and Physical Education) .....	8

Students who wish to complete requirements for the degree of Bachelor of Arts after graduation from the School of Nursing should take 6 credits of foreign language during the Freshman year. Those who submit two or more units of one language in high school are advised to continue with that language in college.

III. Satisfactory scores on a battery of aptitude and achievement tests.

IV. Three recommendations, two of which must come from recent high school or college instructors.

V. Interviews with two members of the Duke University School of Nursing faculty, whenever possible.

VI. Records of recent physical and dental examination.

A physical examination at Duke Hospital is required for final acceptance into the School of Nursing. This examination includes a chest x-ray and a tuberculin test.

Students who attend college more than one year before entering the School of Nursing are advised to take the following courses:

	S.H.
Literature .....	6
Psychology .....	3-6
Sociology .....	3-6
Religion, Ethics or Philosophy .....	6
Language (second year of same language taken in first year) .....	6
Electives (Physical Education) .....	2-8

#### FEES AND EXPENSES

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>
Tuition .....	\$100.00	\$100.00	\$100.00
Books (Estimated) .....	40.00	10.00	10.00
Pre-entrance tests .....	5.00		
Publications (Estimated) .....	15.00	15.00	15.00
Graduation .....			3.00
Diploma .....			5.00
Degree .....			5.00
Cap and Gown Rental .....			1.25
Room Key Deposit .....	1.00		
Uniforms .....	84.20		
	<hr/>	<hr/>	<hr/>
	\$245.20	\$125.00	\$139.25



The fee for pre-entrance tests and health examination is payable at time testing is done. Checks should be made payable to Duke University.

No student is permitted to attend classes until she has complied with all regulations concerning registration and payment of bills for the term.

Arrangements for purchase of uniforms are made with the uniform company late in September. The total cost of the uniforms is paid at that time.

Duke Hospital provides board, room and laundry for students in the School of Nursing. The rooms in the residence are fully equipped. Twenty-five dollars of the tuition fee is payable upon receipt of the acceptance letter, the balance is due upon admission.

Fees for courses which require registration in the Woman's College are charged upon the basis of hours of credit.

### **LOAN FUND AND SCHOLARSHIP**

Through the generosity of the Kellogg Foundation, loan funds sufficient to cover tuition costs are available to students who demonstrate a real need and who are qualified. There are also a limited number of tuition scholarships for exceptionally qualified students.

Residents of North Carolina and others upon recommendation may secure loans from the Medical Care Commission of North Carolina. The conditions under which these loans are granted will be supplied upon inquiry addressed to the Dean of the School of Nursing.

A loan fund sufficient to cover tuition costs has been established for worthy applicants by the Alumnae Association of the School of Nursing. Inquiries may be addressed to the Dean of the School of Nursing.

### **RESIDENCES**

Students are housed in the fireproof residences located near the hospital. Rooms are adequately equipped with blankets and linen, making further provision by the student unnecessary. Life in the dormitories is under the regulations established by the Student Government Association with advice from the faculty.

### **HEALTH REGULATIONS AND PHYSICAL EDUCATION**

The School has general supervision of the student's health. All physical defects, such as defective vision, dental needs, etc., must be corrected before admission to the School. The student must have been immunized against typhoid fever and vaccinated against smallpox during the current year. All students are required to pass a physical examination before admission to the School of Nursing and at intervals thereafter, a final examination being given at the end of the course. Students whose condition needs further observation may be admitted tentatively, but must cancel their application if later findings prove them physically unfit for nursing. Students about whom it is decided that tonsillectomy or other surgery was indicated before admission to the School, or students under care of a private physician for some minor complaint which does not interfere with the practice of nursing but requires hospitalization and surgery, may be asked to pay for this care by the Hospital.

Students are allowed two weeks' sick leave during the three-year course.

#### ACTIVITIES OFFERED

Swimming, horseback riding, basketball and softball are offered as student activities, in addition to social activities. First-year students are required to elect either swimming or horseback riding.

#### READMISSION

Students who are absent for more than one month on account of illness or have leave of absence may be readmitted to the same or a succeeding class at the discretion of the faculty.

#### LEAVE OF ABSENCE

Students are not expected to leave the School because of family or other personal reasons. Absence from the School is granted only in extreme cases. If a student is obliged to be away for a period exceeding four weeks, the Dean of the School of Nursing will determine the date of her return and the question of resuming her place in her original class.

#### DISMISSAL

The faculty of the School of Nursing may, at any time, place a student on probation or release her from the School if, in its opinion, she does not have the qualifications necessary for the profession.

#### THE DUKE UNIVERSITY SCHOOL OF NURSING ALUMNAE ASSOCIATION

The Duke University School of Nursing Alumnae Association was formed for the purpose of rendering mutual help and improvement in professional work, and for the promotion of good fellowship among the graduates of the School.

The Alumnae Association co-operates with the North Carolina State Nurses' Association and the American Nurses' Association in working for the professional and educational advancement of nursing.

*Alumnae Notes*, a quarterly news publication, furnishes items of interest to the members of the Association.

#### SANTA FILOMENA

Santa Filomena, Senior Honorary of the Duke University School of Nursing, was organized in April, 1944, under the sponsorship of the 1943 class. The purpose of this organization is to recognize achievement and promote leadership.

The members are chosen from the rising Senior Class and are publicly tapped by the old members at the first meeting of the SGA in their Senior year, the number chosen not exceeding nine or being less than five. Each candidate must show recognized qualities of leadership or must have made

some contribution toward the betterment of the School of Nursing. She must have demonstrated superior nursing abilities and her scholastic record must be eighty or above throughout her first two years.

Santa Filomena strives for better interclass relations, and to promote better nursing and higher nursing standards. The specific objectives are chosen by the members each year. All proceedings of the meetings of this organization are held in secrecy as are all ceremonies except the public tapping of the new members. The Santa Filomena's flower is the white lily and the members wear a small gold Florence Nightingale lamp.

## AWARDS TO NURSES

### BAGBY AWARD IN PEDIATRICS

The Bagby Award in Pediatrics (a subscription to the *American Journal of Nursing*) is given at graduation to the best Duke student nurse in Pediatrics.

### THE FLORENCE NIGHTINGALE PLAQUE

The Florence Nightingale plaque is awarded to a graduating student by the Alumnae Association for leadership, scholarship and nursing skill.

### THE MOSELEY AWARD

The Moseley Award of \$25.00 is given to the student in the senior class who has shown the most skill in Nursing Arts throughout her program in the School of Nursing.

### PROGRAM OF THE SCHOOL OF NURSING

The program of the School of Nursing covers a period of three calendar years with one month of vacation each year. At the completion of this program, the student receives the diploma in nursing and is then eligible for the examinations given by the North Carolina State Board of Nurse Examiners. The School is fully approved by the North Carolina Joint Committee on Standardization.

### COMBINED ACADEMIC-PROFESSIONAL PROGRAMS IN NURSING

Students who have been graduated from the Duke University School of Nursing with an average grade of "C" or better may, upon recommendation by the Dean of the School of Nursing, apply for admission to the Woman's College of Duke University. If accepted she may obtain the degree of Bachelor of Arts or Bachelor of Science from Duke University by fulfilling the requirements for the degree of choice. Forty semester hours of credit toward these degrees are given for the three-year nursing program or toward the degree of Bachelor of Science in Nursing Education for those showing ability in teaching. See page 31.

The program of studies leading to the degree of Bachelor of Arts is as follows:

1. Minimum requirement of the Undergraduate College of Arts and Science:

	S.H.
English 1-2 .....	6
Natural Science .....	8
Language (completion of the third college year) .....	6-18
Religion .....	6
History, Economics or Political Science .....	6



- |  |       |
|--|-------|
| 2. Basic nursing program .....   | 40    |
| 3. At least twelve semester hours in one department other than nursing in courses not primarily open to Freshmen | 12    |
| 4. Electives .....   | 24-36 |

In addition to twelve semester hours in one department, the program must include 24 semester hours in courses numbered 100 or above.

A total of 124 semester hours credit and 124 quality points is required for graduation.

### **THE PROGRAM OF STUDIES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE**

Students who have been graduated from the Duke University School of Nursing may obtain the degree of Bachelor of Science by fulfilling all requirements for that degree. Forty semester hours of credit toward this degree are given for the three-year program in the School of Nursing. The requirements for this degree may be found in the bulletin of the undergraduate colleges.

### **ADMISSION WITH ADVANCED STANDING IN WOMAN'S COLLEGE**

Students from the School of Nursing enter Woman's College with advanced standing. They may receive credit for college courses taken previous to admission to the School of Nursing if the work meets the following requirements.

A student enrolling for the Bachelor's degree who transfers from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, is under all circumstances required to continue, for at least one semester in the Woman's College, the foreign language she presents for minimum graduation requirements. Note:—No language requirement is made for the degree of B.S. in Nursing Education.

A student who has transferred from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit. The maximum amount of credit acceptable from a junior college is sixty semester-hours.

Transfer credits are tentatively evaluated pending the completion of two semesters' work in residence. To validate provisional credits the student must earn at least an average of "C" in a normal load of work. Transfer grades of "C" or above are rated at one quality point per credit hour when validated.

No credit is given for work completed by correspondence, and not more than six semester hours credit is allowed for extension courses. Any extension work accepted must be specifically approved by the Dean of the College.

## COURSES OF INSTRUCTION

<b>Anatomy and Physiology.</b>	DR. MARKEE, DR. SAWYER, MISS SMITH
<b>Physiological Chemistry.</b>	DR. TAYLOR, MISS SMITH
<b>Microbiology.</b>	DR. CONANT, MISS SMITH
<b>Communicable Diseases and Public Health.</b>	

DR. HARRIS, DR. MARTIN, MISS SMITH  
MISS YEARICK, MISS TOLAND

**Nutrition and Cookery.**—32 hours of nutrition lecture, 32 hours of laboratory.

**Diet Therapy.**—15 hours of lecture. 6 weeks in Dietetics Department.

MRS. MARTIN, MISS YEARICK  
MISS JEFFERS; SPECIAL LECTURERS

**Social Psychology.**

**Introduction to Nursing.**—This course includes Hygiene, Elementary Pharmacology, History of Nursing, Professional Adjustments I and Introduction to Public Health.

MISS HUNTER AND ASSISTANTS

**Nursing Seminar.**

MISS SMITH, MISS HUNTER, MISS MILLER,  
MISS SLAYBAUGH, MISS GALLOWAY, MRS. OAKES

### **Foundations of Nursing I, II and III.**

A. In these courses the following subjects will be taught:

1. Anatomy and Physiology (review)
2. Chemistry (review)
3. Pathology and Disease conditions
4. Nursing procedures and nursing care
5. Pharmacology
6. Diet therapy
7. Social, economic and psychological aspects of the prevention and cure of disease and rehabilitation of patient in relation to:
 

(1) Circulatory system	}	Foundation I
(2) Urinary system		
(3) Digestive system		
(4) Nervous system		
(5) Respiratory system	}	Foundations II
(6) Endocrine system		
(7) Skeletal and muscular systems	}	Foundations III
(8) Special senses		

B. The outline followed in all these foundation courses is essentially as follows:

#### *Unit I*

- a. What roles does this system play in the maintenance of health?
- b. Under what conditions does this system function best?

#### *Unit II*

- a. What are the pathological changes in regards to this system?
- b. What do these changes do to the functioning of the system and to the individual as a whole?

#### *Unit III*

- a. What are the possible causes of such pathological changes?

#### *Unit IV*

- a. Once pathology occurs, how may it be limited so that functioning is improved?

*Unit V*

- a. What can be done to help patients in the rehabilitation process?

MISS MILLER, MISS HEATH, MISS WILLIAMS, MISS PETREA,  
MISS SMITH, MISS MCCrackEN, MISS YEARICK, MISS  
HUNTER AND ASSISTANTS; SPECIAL LECTURERS

**Obstetrical Nursing Including Gynecological Nursing.**

DR. CARTER, MISS HORTON, MISS ELLIOTT

**Pediatric Nursing.** MISS CRAWLEY, MISS SHERWOOD; SPECIAL LECTURERS

**Psychiatric Nursing.**

DR. GOLDSMITH, MISS QUARMBY; SPECIAL LECTURERS

**Professional Adjustments.**

MISS WILSON

## **DIVISION OF NURSING EDUCATION**

### **ADVANCED PROFESSIONAL PROGRAMS**

A Division of Nursing Education was established in December, 1944, as an integral part of the Department of Education of Duke University. At the present time, qualified graduate nurses may work toward the degree of Bachelor of Science in Nursing Education, or toward the degree of Master of Education with a major in Nursing Education.

The primary objective of the degree programs for graduate nurses is to prepare qualified individuals for administrative, teaching, and supervisory positions in schools of nursing and in nursing service agencies. Facilities for instruction include the undergraduate colleges of Duke University, the Graduate School, the School of Nursing, the Medical School and Duke Hospital.

### **I. DEGREE OF BACHELOR OF SCIENCE IN NURSING EDUCATION**

#### **Admission**

A student who wishes to work toward the degree of Bachelor of Science in Nursing Education must apply for admission to the **Woman's College** of Duke University. To be eligible for admission as a candidate for this degree she must meet the following requirements:

1. Graduation from an approved secondary school with at least fifteen acceptable units of credit. Twelve units must be in English, foreign language, history and social studies, mathematics and natural science, and must include:
  - (a) English—3 units.
  - (b) Algebra—1 unit.
  - (c) Plane Geometry—1 unit.

Three units may be in subjects listed above or in such subjects as art, commercial subjects, household economics, or music.

Students who have satisfactorily completed one or more years of college work in an approved college or university must also fulfill the requirements listed above with respect to high school credit, must present official transcripts of all work done in other institutions, and must have honorable dismissal from each institution previously attended.

2. Graduation from an approved school of nursing which provides satisfactory preparation in medical, surgical, pediatric, and obstetric nursing, as a minimum.
3. Satisfactory scores on specified tests.
4. Satisfactory ratings from three individuals, preferably former teachers and supervisors with whom the individual has had fairly recent contact.

Credit for 120 semester hours (exclusive of physical education) on which an average grade of at least "C" is made is required for the degree



of Bachelor of Science in Nursing Education. The work of the final year must be taken in residence at Duke University. The program of studies leading to this degree must include:

### Outline of Program

1. Minimum general education requirements (may be satisfied at Duke University or at any accredited college or university).

	S.H.
English 1-2 .....	6
Natural Science .....	8
History, Economics or Political Science .....	6
Sociology .....	3-6
Psychology .....	3-6
Electives .....	12-18
(Literature, Art, Music, Religion, Ethics, Language)	<u>38-50</u>

2. BASIC NURSING PROGRAM .....40 (maximum)  
May be taken at the Duke University School of Nursing or at any approved school of nursing.  
The amount of credit which is granted for the nursing school program is determined on an individual basis.

3. COURSES IN EDUCATION AND NURSING EDUCATION

88.	Psychological Foundations of Modern Education	3
110.	Introduction to Measurement and Research in Education .....	3
84N.	Social Foundations of Nursing Education .....	3
101N.	The Curriculum of the School of Nursing .....	3
115N. }	Nursing Education—Principles and Practices ...	6
116N. }		
117.	Community Nursing—Seminar and Field Trips to Community Agencies .....	2
		<u>20</u>

4. Field of Concentration—16

Sixteen semester hours in one field such as chemistry, zoology, physics, psychology or sociology, or in a clinical area and related subjects is required. No freshman work may be included in these sixteen semester hours. Nurses who are interested in head nurse work or supervision in a clinical area are advised to take the following courses:

	S.H.
193. Ward Administration and Teaching .....	3
195. Personnel Work in Schools of Nursing .....	3
120. Problem in Nursing Care .....	2

5. PROFESSIONAL EXPERIENCE

One year of experience as a graduate nurse is required before the degree is granted.

## II. DEGREE OF MASTER OF EDUCATION WITH A MAJOR IN NURSING EDUCATION

### Admission

A student who wishes to work toward the degree of Master of Education with a major in Nursing Education must apply for admission to the Graduate School of Duke University. To be eligible for admission as a candidate for this degree she must meet the following requirements:

- (1) Graduation from an approved college or university with an average grade of not less than "B."
- (2) Satisfactory standing on the Graduate Record Examination.
- (3) Satisfactory standing on a test of mental ability.
- (4) Ability to write acceptable English as demonstrated on a test.
- (5) Graduation from an approved school of nursing.
- (6) Satisfactory ratings from three individuals, preferably former teachers and supervisors with whom the individual has had fairly recent contact.

### Outline of Program

Basic Required Courses in Education:	S.H.
300. Methods of Educational Research .....	3
304. The School as an Institution .....	3
305. The Nature, Function, and Reorganization of the Curriculum .....	3
317. The Psychological Principles of Education .....	3
	<hr/>
	12
Courses in Nursing Education:	
310. Organization and Administration of Schools of Nursing .....	4
311. Problems in Personnel Administration in Nursing ..	4
312. Research Problem .....	4
	<hr/>
	12
Minor, intra-departmental or extra-departmental .....	6
	<hr/>
	30

Candidates for the Master of Education degree must have had two years of experience including administration, supervision, or teaching in a school of nursing or nursing service organization when the degree is granted.

## Tuition, Fees, and other Expenses:

**Fees Per Semester**

Matriculation Fee (paid one time) .....	\$ 20.00
Tuition .....	175.00
General Fee (Undergraduate) including health, library and incidental fees) .....	75.00
General Fee (Graduate School) .....	60.00
Laboratory Fee (amount depends upon course which is taken)	

**Living Arrangements**

Students may make their own arrangements to live in private homes. A limited number of students can be housed in the Graduate Nurses' Residence, 2204 Erwin Road. The cost of living in this residence is as follows:

Single room (per semester) .....	\$87.50
Double room (per semester) .....	67.50

Meals can be secured at a nominal rate at University cafeterias.

**Employment**

A limited number of nurses may be employed at Duke Hospital during the time they are taking courses at Duke University. Nurses who are working full-time (44 hours per week) may take one course each semester. Nurses who wish to reduce hours of work per week to 36, with a corresponding reduction in salary, may take two courses each semester.

For information about employment write to the Director of Nursing Service, Duke Hospital.

**III. CLINICAL PROGRAM IN OPERATING ROOM NURSING**

A program in operating room nursing of nine months in length is offered to qualified graduate nurses who are interested in preparing for head nurse positions in an operating room.

**Admission**

An individual who is interested in the program in operating room nursing must apply for admission to the Woman's College of Duke University as a *special* student. To be admitted as a special student the following records are required:

1. Transcript of high school or of college record.
2. Transcript of nursing school record.
3. Satisfactory rating from a nursing service administrator or supervisor with whom the applicant has had recent contact.

In addition to the above requirements an applicant must have had a minimum of six months' experience as an operating room nurse.

### Outline of Program

#### \*Courses in Nursing Education and Related Subjects

	<i>Credits</i>
84N. Social Foundations of Nursing Education .....	3
120. Problem in Nursing Care .....	2
193. Ward Administration and Teaching .....	3
195. Personnel Work in Schools of Nursing .....	3
Elective.....	3
	<hr/> 14

#### Classes and Related Experience in Operating Room Nursing

The course in operating room nursing includes 60 hours of organized class work during the period of nine months and an average of 36 hours each week on duty, of which 18 hours is supervised experience. The class work includes a discussion of the facts and principles of chemistry, bacteriology, anatomy and physiology underlying preparation for and assistance with surgical operations, both general and special. The history of anesthesia is presented, as well as present day trends and developments in the field.

In the related field work the nurse becomes acquainted with the functions of various departments of the hospital and their relationship to the operating room. She has an opportunity to prepare for and assist with various surgical operations including general surgery, chest surgery, neuro-surgery, orthopaedic surgery, urological surgery, plastic surgery and eye, ear, nose and throat surgery. She is also given an opportunity to assist with administrative and supervisory functions in the operating room, and with planning and conducting a teaching program for students and others.

#### Fees

Each student pays the regular University fees for courses in Nursing Education and related subjects. The fee per credit hour is \$12.00 (1948-49). In addition a matriculation fee of \$5.00 is paid each semester.

#### Living Arrangements

Students who are taking the course in operating room nursing receive full maintenance in return for service to the hospital.

#### Health Care

Each student is required to carry hospitalization insurance to cover the cost of hospitalization during illness.

A sick leave of seven days is given during the nine months' period.

#### Dates of Admission

Students are admitted to the program in operating room nursing at the beginning of each semester.

\* Credit toward the degree of B.S. in Nursing Education is given for these courses.



**Certificate**

At the completion of the nine months' program in operating room nursing the student is granted a certificate.

**Information**

For further information about any program write to Director of the Division of Nursing Education, College Station, Box 6568, Durham, North Carolina. Application for admission to the Woman's College should be made to the Committee on Admissions, College Station, Durham, North Carolina. An applicant for admission to the Graduate School should have an official transcript of undergraduate record sent directly to the Dean of the Graduate School. An application blank for admission will be provided upon request to the Dean of the Graduate School.

**DESCRIPTION OF COURSES**

- |   |                        |
|---|------------------------|
| 84N. Social Foundations of Nursing Education.—3 s.h.                                  | MISS NAHM              |
| 101N. The Curriculum of the School of Nursing.—3 s.h.                                 | MISS NAHM              |
| 115-116N. Nursing Education, Principles and Practice.—6 s.h.                          | MISS NAHM              |
| 117. Community Nursing.—2 s.h.  | MISS GARDINER          |
| 120. Problem in Nursing Care.—2 s.h.  | MISS NAHM              |
| 124. Teaching of Nursing Arts.—3 s.h.   | MISS HUNTER            |
| 193 Ward Administration and Teaching.—3 s.h.  | MISS NAHM              |
| 195. Personnel Work in Schools of Nursing.—3 s.h.                                     | MISS NAHM              |
| 310. Nursing Education: Organization and Administration of Schools of Nursing.—4 s.h. | MISS WILSON, MISS NAHM |
| 311. Nursing Education: Problems of Personnel Administration in Nursing.—4 s.h.       | MISS NAHM              |
| 312. Nursing Education: Research Problems.—4 s.h.                                     |                        |
- MISS NAHM AND OTHER FACULTY MEMBERS OF THE DEPARTMENT  
OF EDUCATION AND OF THE SCHOOL OF NURSING

## **PUBLIC HEALTH NURSING**

SCHOOL OF PUBLIC HEALTH  
UNIVERSITY OF NORTH CAROLINA  
CHAPEL HILL, N. C.

### **PUBLIC HEALTH NURSING**

The program of study in Public Health Nursing is designed to prepare registered professional nurses to carry on the functions of public health nursing in local health departments, visiting nurse associations, or joint health agencies.

Curricula leading to a certificate or baccalaureate degree in Public Health Nursing are offered.

# THE SCHOOL OF FORESTRY

CLARENCE F. KORSTIAN, B.S.F., M.F., M.A., Ph.D.  
*Dean*

1948-1949  
ANNOUNCEMENTS FOR 1949-1950

# FORESTRY IN DUKE UNIVERSITY

## · GENERAL STATEMENT

Forestry in Duke University began early in 1931, when, through placing the Duke Forest under intensive management for forestry purposes, a substantial beginning was made in laying the foundation for educational work and research in forestry.

An academic-forestry curriculum, designed for students intent upon pursuing the study of forestry, particularly as a profession after graduation, was organized in Trinity College of Duke University in 1932 (see *Announcement on Undergraduate Instruction in Duke University*). This four-year course of study provides only for instruction in fundamental and auxiliary subjects basic to a proper understanding of the highly specialized work in technical forestry. Duke University offers no professional degree in technical forestry available to undergraduates.

Training in technical forestry leading to the professional degrees, Master of Forestry and Doctor of Forestry, is offered in the School of Forestry, and is open to all graduates of the academic-forestry curriculum in Trinity College and to graduates of recognized scientific schools or colleges, universities, and professional schools of forestry.

Duke University is also prepared to offer, through the Graduate School of Arts and Sciences, graduate work in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees. This work is available to graduates of schools of forestry of recognized standing, and to college or university graduates holding the Bachelor's degree with their major work in appropriate scientific subjects. Undergraduate subjects which the college student, who does not have forestry training but who is contemplating work toward either degree in forestry, should take in preparation for this work may be illustrated as follows: At least two full years in botany, including general morphology or anatomy, the taxonomy, physiology, and ecology of plants; at least one course in zoology or general biology; courses in chemistry, physics, geology, economics, mathematics; and at least two years of French or German.

Several staff members of the Southeastern Forest Experiment Station are engaged in co-operative research projects in the Duke Forest. Specialists from this station and other prominent members of the U. S. Forest Service and representatives of forest and wood-using industries give occasional scheduled lectures at the School.

## EDUCATIONAL FACILITIES

The School of Forestry is located partly in Few Quadrangle and partly in the Biology Building along with the Departments of Botany and Zoology. The administrative offices, two classrooms, and the forest mensuration and statistical laboratory are in Few Quadrangle, while other laboratories and offices and the School Library are in the Biology Build-



ing. The Biology Building contains, in addition to classrooms, laboratories, and offices, a library, three refrigerated rooms, an incineration room, a workshop, and eight dark-rooms. The School is provided with instruments and tools for use in both field and laboratory work in silvics, silviculture, and forest mensuration. Modern surveying instruments and accessory equipment are available for work in forest surveying.

Laboratories for work in wood anatomy and properties are provided with microtechnique and photomicrographic instruments, wood-working machinery, a Henderson dry kiln, and a 50,000-pound Olsen Universal timber-testing machine, in addition to a glue and plywood laboratory. A modern forest soils laboratory equipped for physical and chemical studies is available. In the field of seasoning and preservation of wood a commercial-sized, single-compartment dry kiln and a fully equipped experimental pressure treating cylinder are available for instruction and research.

Facilities are also available for advanced work in plant physiology, plant anatomy, plant taxonomy, genetics, plant ecology, plant pathology, and the several branches of zoology. Many rooms in the Biology Building are equipped with vacuum, compressed air, direct and alternating electric current, gas, and running water.

The School of Forestry Library contains a growing collection of material on forestry, soils, and closely related subjects. It includes important books and periodicals in English and in French, German, and certain other foreign languages. The Library is well provided with American material, including Federal and State documents and reports. Over 150 periodicals and serials of importance in forestry and related fields are received by subscription or exchange.

Greenhouses, connected to the Biology Building through a soil-storage and work room, provide adequate space for experimental work.

A nursery has been established by the University for joint use of the Sarah P. Duke Floral Garden, the Botany Department, and the School of Forestry. The forestry section of this nursery is used mainly for the growing of planting stock for the Arboretum and trees needed for research or other special purposes.

West Virginia Pulp and Paper Company has made available to Duke University a field headquarters for work in forests of the South Atlantic Coastal Plain located 18 miles northwest of Summerville, South Carolina. This company has extensive forest holdings under close supervision of a staff of technical foresters in South Carolina and permits access to its lands for instruction and research in forestry and allied fields. This headquarters camp with modern facilities for as many as 45 men is used as a base primarily for utilization work each spring and for special work in silviculture. The quarters may be available at other times for students and faculty members of the Duke School of Forestry working on special problems or doing advanced work in any of the fields of forestry concerned with coastal plain problems. The establishment of this headquarters camp in the coastal plain region makes it possible for the School of Forestry to provide instruction and conduct research in this important

forest area in which many privately owned forests as well as public forests are intensively managed for the production and utilization of a wide range of forest products. The Southern Railway Demonstration Forest is within easy reach of this center and will also be available for work, particularly with longleaf pine.

The School sponsors occasional lectures on forestry and conservation by speakers of national reputation.

An active Forestry Club is maintained as a student organization to bring the members of the School and students in the undergraduate academic-forestry curriculum into closer contact and to afford opportunities for extracurricular activities not otherwise available.

### FOREST INDUSTRY TRAINING PLAN

The School of Forestry and the Southern Pine Association have initiated a joint plan for training graduate foresters in the Southern lumber industry. Graduates of the School will be placed, with the assistance of the Association Forester, with companies desiring to participate, for a period of approximately one year during which time the men will work in a variety of capacities under competent supervision.

The plan is designed better to equip young foresters for careers in forest industries and to make them more useful employees capable of developing executive capacities. The gap between academic education and practical training will be bridged under the operation of the plan for the mutual benefit of the men and their prospective employers.

Detailed information about this program can be obtained from the School of Forestry or from the Southern Pine Association, New Orleans, Louisiana.

### THE DUKE FOREST

The Duke Forest, located in Durham and Orange counties, North Carolina, consists of five main units: namely, the Durham, New Hope Creek, Hillsboro, Eno, and Blackwood divisions. Early in the development of Duke University it was recognized that the possession of such an area offered an unusual opportunity for the development of educational work in forestry.

Situated on the lower Piedmont plateau at elevations ranging from 280 to 650 feet, and composed of second-growth shortleaf and loblolly pines, oak, gum, hickory, maple, yellow poplar, ash, and other hardwoods, the Forest is representative of the various types of timber growth found throughout the region. Over a hundred different species of trees are found within or near the Forest. The land is rolling and there is relatively little rock outcrop, swamp, or other land of low productivity for timber growing. The total area of the Forest proper, exclusive of the University campus, is approximately eight thousand acres.

### THE ARBORETUM

Of outstanding value in the teaching of both forestry and botany in the future is the provision for the development of an arboretum. In their annual meeting on June 4, 1934, the Board of Trustees of Duke Univer-

sity, upon the recommendation of their Forestry Committee, voted to set aside permanently an area of over three hundred acres in the Forest to be used for arboretum purposes. The area lies adjacent to the main University campus immediately across the road from the Chapel.

Through the generosity of the late W. W. Flowers, of New York, a member of the Class of 1894 and a Trustee of the University, it has been possible to develop preliminary plans and to make a number of plantings. This is naturally a long-time project, and many years will elapse before the Arboretum will be most useful and most attractive. The University Trustees' Committee on Forestry in its report to the Board refers to the Arboretum as follows:

"The Arboretum should serve as a station for the study of trees and woody plants as individuals and in small groups in their scientific relations, economic properties, and cultural characteristics, requirements, and possibilities. It should render an economic service by acting as a research laboratory where trees and shrubs can be studied from the viewpoint of a fuller utilization of their commercial possibilities. It should render a cultural service by serving as a center where foresters, landscape architects, nurserymen, gardeners, and the general public may increase their knowledge of indigenous trees and shrubs and where they may become acquainted with the foreign species that can be grown here. Within the University the Arboretum will supply living specimens and material for several branches of botany and forestry."

The development of the Arboretum will proceed along these lines as rapidly as available funds and planting stock will permit.

### **FELLOWSHIPS, SCHOLARSHIPS, AND GRADUATE ASSISTANTSHIPS IN FORESTRY**

A number of fellowships, scholarships, and research assistantships are available to men who offer promise of becoming leaders in the forestry profession. These will be awarded for high character and marked scholastic ability as judged by education, experience, and personal references.

Holders of the awards will pay tuition and such additional fees as are regularly required.

The awards are of three classes with stipends and special conditions as follows:

(1) Fellowships of \$600 to \$1,000 each. Each recipient must have previously completed work equivalent to that required at Duke University for a Master's degree with major in forestry or in a discipline basic to forestry. He will devote his time to an approved program of study and research in any of the branches of forestry. He is expected to become a candidate for the degree of Doctor of Forestry or Doctor of Philosophy.

(2) Scholarships of \$250 to \$700 each. Each recipient will normally devote his time to an approved program of study leading to the degree of Master of Forestry or Master of Arts with a major in forestry.

Holders of fellowships and scholarships will be expected to do a limited amount of assisting.

(3) Graduate assistantships of \$1,000 each. Each recipient will devote



half-time to research or other work of the School of Forestry. He will be permitted to enroll for not more than 20 semester hours in a school year on a program of study, or study and research, leading to the degree of Master of Forestry, Master of Arts, Doctor of Forestry, or Doctor of Philosophy.

Two Union Bag & Paper Corporation forestry fellowships of \$800 each are available for graduate study leading to the degrees of Master of Forestry or Doctor of Forestry with major work in the fields of harvesting and marketing of forest products, silviculture, or forest economics, or combination majors in two of the above fields, for men interested in private forestry careers. Preference will be given to forestry graduates of southern institutions for one of the awards. College graduates not having degrees in forestry must have completed at least one year of forestry in a recognized school of forestry to be eligible for these fellowships. The Woodlands Division of the Union Bag & Paper Corporation with headquarters at Savannah, Georgia, has agreed to employ the recipients of the awards during the summer preceding their enrollment in the Duke School of Forestry to provide opportunity for contact with private forestry activities and to assemble material for their theses, should they desire to avail themselves of this opportunity. A fund is available each year for expenses incurred in the collection and analysis of thesis data and for other expenses in connection with the fellowships. This fund is disbursed by the School of Forestry only as needed for essential expenses.

The following arrangements are common to all fellowships, scholarships and research assistantships in forestry:

- (1) Each applicant must have received a Bachelor's degree from an acceptable professional school of forestry or must be a graduate of a recognized college or university. If an applicant is not a graduate of a school of forestry, he must have had major work in botany or soil science and in the allied basic sciences. Each applicant must show reasonably high scholarship. Preference will be given to men who have already obtained technical or professional training in forestry.

- (2) It is highly desirable that each applicant state as specifically as possible the field in which he wishes to study. The definite selection of a major field of work—one that is specific in purpose and involves training both in fundamentals and in technique—is very helpful to the Committee on Awards.

- (3) Application blanks for fellowships, scholarships, and research assistantships may be obtained by writing to the Dean of the School of Forestry, Duke University, Durham, North Carolina. When the blank has been filled out by the applicant, it should be returned to the above address, and an *official transcript of record* showing college or university credits must accompany it or be forwarded promptly. The application and transcript must be filed not later than March 1 for consideration for the following academic year. In case vacancies occur, applications submitted on a later date may be considered.



## REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY

The following general requirements of the School of Forestry apply to candidates for the Master of Forestry degree:

Admission to the School of Forestry presupposes that the applicant is either a graduate of a scientific school, college, or university of high standing, but without professional training in forestry; or that he is a graduate of a professional school of forestry of recognized standing. He will present not less than four years of credit of collegiate grade with at least as many quality points as hours.<sup>1</sup>

An applicant with no professional training in forestry will present a certified transcript of his academic record showing that he has had conferred upon him a degree in arts, science, or engineering; and that he has satisfactorily completed undergraduate work in minimum amount as follows:

One year of botany, including the morphology, physiology, and identification of plants.

One year each of English composition and of chemistry.

One course each in physics and in the principles of economics.

Mathematics, through college algebra and trigonometry.

It is urged that an applicant without professional training in forestry present additional credits in the above subjects and in one or more of the following subjects: soils, geology, mineralogy, petrology, climatology, surveying, languages (particularly German and French), sociology, political science, philosophy, psychology, and zoology.

An applicant who is a graduate of a professional school of forestry of recognized standing will present a certified transcript of scholastic record showing the award of a degree. Before registering for the first semester of residence, such applicants will be required to select the branch or branches of forestry in which they wish to concentrate the major part of their work and to prepare their proposed programs in conference with the appropriate faculty adviser.

Students must make application for admission in advance of the opening of the school year. Those students entering without acceptable courses in plane surveying, forest surveying, and forest mensuration must take the twelve weeks of work in these subjects in the Summer Session, and are required to submit their applications prior to May 1. Students entering with advanced standing in surveying and forest mensuration should make application before September 1. Application blanks will be sent upon request made to the Dean of the School of Forestry.

<sup>1</sup> Grades for each hour of college credit and also for credit earned in the School of Forestry are valued in quality points as follows: "A," 3 points; "B," 2 points; "C," 1 point; "D," no points; and "F," no credit and —1 point.

### **REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY**

The degree of Master of Forestry (M.F.) is conferred upon students who have satisfactorily completed two years of study in technical forestry and one term of twelve weeks' work in plane surveying, forest surveying, and forest mensuration in the Summer Session. In addition to the Summer Session work a total of not less than sixty semester hours' credit is required for the M.F. degree, of which at least fifty-five shall be obtained in the School of Forestry. Each student must obtain at least as many quality points as semester hours' credit under the quality-point system described in footnote 1 of the preceding section.

### **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF FORESTRY**

The degree of Doctor of Forestry (D.F.) is a professional and research degree, involving both advanced study and research. It is based upon evidence of high attainments in a special branch of forestry knowledge or in the broad field of forestry, including the production of a thesis which is the result of original work and which is a distinct contribution to knowledge in the field of forestry.

## FORESTRY IN THE GRADUATE SCHOOL

Graduate work toward the Master of Arts and Doctor of Philosophy degrees in the more scientific branches of forestry is available to adequately prepared students at Duke University. This work is given through the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty.

The following special conditions will influence the acceptance of students for graduate study in forestry: The student must have received a degree from a professional school of forestry of recognized standing or from an approved college or university. Graduates of professional schools of forestry must also have had adequate training in liberal arts and sciences, approximating 86 semester hours, before being admitted to candidacy for the Master of Arts or Doctor of Philosophy degree. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them.

The Forestry Staff will determine whether a student is qualified to pursue graduate study in any of the special fields of forestry in which work is available.

The Master of Arts and Doctor of Philosophy degrees are attained through scientific work rather than technical or professional training in forestry. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, forest entomology, silvics, forest soils, forest mensuration, forest management, and forest economics, except that a major cannot be taken in forest management. A student upon registration chooses a field of study which may lie in two or more departments. The members of the Graduate School Faculty best qualified in that field are named as the student's advisory committee, regardless of the department of which they are members. This committee will advise the student in the planning and conduct of his work and will evaluate it when completed.

A reading knowledge of French and German must be acquired early in the course of graduate study in forestry because much of the forestry literature of the world is written in or has summaries in these languages. For the Ph.D. degree the language requirement must be met before the preliminary examination is taken and usually before the preparation of the thesis is begun.

The length of time required for a student to obtain the Master of Arts and Doctor of Philosophy degrees in forestry is determined by the character of his previous work and by the quality of his work in the Graduate School. Upon the recommendation of the Forestry Staff and with the approval of the Council on Graduate Instruction, work of equal grade done in residence at another college or university, or at a research

station or institute not connected with a college or university, may be accepted toward a Ph.D. degree, but at least the last year of the first two years of graduate study must be spent in actual residence at Duke University. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, or research station.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

The field of study may include advanced work in allied subjects as well as advanced work in forestry. The students should have covered, however, most of the basic subjects prior to entering the Graduate School. The required advanced work will depend upon the student's previous training and the special field of study selected. Before beginning his work a student must obtain approval of his proposed program of study, including the plans for the research for his thesis. Courses of study must be correlated with each other and with the thesis research.

uate School of Arts and Sciences and on the general requirements for

For further information on requirements for admission to the Graduate Master of Arts and Doctor of Philosophy degrees reference should be made to the *Bulletin of the Graduate School of Arts and Sciences*.



## COURSES AND SUBJECTS OF INSTRUCTION

*This is a condensed description of courses. For a full description, see Bulletin of the School of Forestry.*

### IN THE SUMMER SESSION

- |  |                              |
|--|------------------------------|
| C.E. S110. Plane Surveying.—3 s.h.   | ASSISTANT PROFESSOR WILLIAMS |
| S150. Forest Surveying.—Prerequisites: Civil Engineering, S110, Plane Surveying, or equivalent. 5 s.h. | PROFESSOR COILE              |
| S151. Forest Mensuration.—4 s.h.   | PROFESSOR SCHUMACHER         |

### FOR SENIORS AND GRADUATES

- |  |                      |
|--|----------------------|
| 211. Harvesting Forest Products.—3 s.h.  | PROFESSOR WACKERMAN  |
| 212. Forest Products Industries.—3 s.h.  | PROFESSOR WACKERMAN  |
| 213. Seasoning and Preservation of Wood.—3 s.h.  | PROFESSOR WACKERMAN  |
| 214. Marketing Forest Products.—Prerequisites: Forestry 211 and 212, or equivalents. 3 s.h.  | PROFESSOR WACKERMAN  |
| 224. Forest Pathology.—Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 3 or 4 s.h.  | PROFESSOR WOLF       |
| 231. Forest Entomology.—3 s.h.   | PROFESSOR BEAL       |
| 232. Forest Products Entomology.—Prerequisite: Forestry 231 or equivalent. 3 s.h.  | PROFESSOR BEAL       |
| 236. Forest Game Management.—3 s.h.  | PROFESSOR BEAL       |
| 251. Sampling Methods in Forestry.—Prerequisite: Forestry S151. 2 s.h.   | PROFESSOR SCHUMACHER |
| 252. Forest Mensuration.—Prerequisite: Forestry 251. 3 s.h.  | PROFESSOR SCHUMACHER |
| 253. Dendrology.—Prerequisite: one year of botany. 3 s.h.  | PROFESSOR HARRAR     |
| 255. Bonding of Wood.—Prerequisite: Forestry 258 or equivalent. 3 s.h.   | PROFESSOR HARRAR     |
| 257. Design of Forestry Experiments and Analysis of Data.—5 s.h.   | PROFESSOR SCHUMACHER |
| 258. Properties of Wood.—Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. 3 s.h.   | PROFESSOR HARRAR     |
| 260. Timber Mechanics.—Prerequisites: Physics 1 and Forestry 258, or equivalents. 3 s.h.   | PROFESSOR HARRAR     |
| 261. Forest Soils.—Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology, mineralogy, petrology, and analytical chemistry are also desirable. 3 s.h. | PROFESSOR COILE      |

264. **Silvics.**—Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. PROFESSOR KORSTIAN

265. **Theory and Practice of Silviculture.**—Prerequisite: Forestry 264 or equivalent. 3 s.h. PROFESSOR KORSTIAN

266. **Forest Seeding and Planting.**—2 s.h. PROFESSOR KORSTIAN

273. **Forest Protection.**—2 s.h. ASSISTANT PROFESSOR RUDOLPH

277. **Forestry Policy.**—2 s.h. PROFESSOR THOMSON

278. **Economics of Forestry.**—Prerequisite: at least one course in the principles of economics. 3 s.h. PROFESSOR THOMSON

279. **Economic Analysis in Forestry.**—3 s.h. PROFESSOR THOMSON

281. **Forest Management.**—Prerequisites: Forestry S150, S151, and 251, or equivalents. 3 s.h. ASSISTANT PROFESSOR RUDOLPH

282. **Forest Valuation.**—3 s.h. PROFESSOR THOMSON

211A to 282A. **Special Studies in Forestry.**—Credits and hours to be arranged. THE STAFF

#### FOR GRADUATES

301-302. **Advanced Studies in Forestry.**—Credits to be arranged.

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents. PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent. PROFESSOR COILE

c. **Silviculture.**—Prerequisite: Forestry 265 or equivalent. PROFESSOR KORSTIAN

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent. ASSISTANT PROFESSOR RUDOLPH

e. **Forest Economics.**—Prerequisite: Forestry 278 or 279 or equivalent. PROFESSOR THOMSON

f. **Properties of Wood.**—Prerequisites: Forestry 258 and 260, or equivalents. PROFESSOR HARRAR

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent. PROFESSOR BEAL

i. **Forest Utilization.**—Prerequisites: Forestry 211 and 212, or equivalents. PROFESSOR WACKERMAN

j. **Dendrology.**—Prerequisite: Forestry 253 or equivalent. PROFESSOR HARRAR

311. **Advanced Forest Utilization.**—Prerequisite: Forestry 211 or equivalent. 2 s.h. PROFESSOR WACKERMAN

320. **Seminar in Silviculture.**—Prerequisite: At least one course in silviculture. 3 s.h. PROFESSOR KORSTIAN

322. **Soil Classification and Mapping.**—Prerequisite: Forestry 261 or equivalent. 2 s.h. PROFESSOR COILE

**323-324. Advanced Forest Pathology.**—Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

**351-352. Advanced Physiology of Forest Trees.**—Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.

PROFESSOR KRAMER

**354. Forest Soil Fertility.**—Prerequisites: Forestry 251 and 261, plant physiology, bacteriology and analytical chemistry. 3 s.h. PROFESSOR COILE

**356. Comparative Forest Valuation.**—Prerequisites: Forestry 278, 279, or 282 or equivalent; courses in economic theory are desirable. 2 s.h.

PROFESSOR THOMSON

**357-358. Research in Forestry.**—Credits to be arranged. THE STAFF

## FEES AND EXPENSES

The following tables show the general fees and charges collected from all students. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Tuition, per semester .....	\$175.00
General Fee, per semester .....	60.00

### TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one transcript of his record. A charge of one dollar is made for each additional copy.

### PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows, research assistants, and scholars are made in four installments, on November 25, January 25, March 25, and May 25. Fellows and scholars are required to pay the regular tuition fee and such additional fees as are ordinarily required of graduate students.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a graduate student are moderate: the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum cost, while all charges made by the University have been kept low. Incidental expenses naturally depend upon the tastes and habits of the individual. The following table gives the necessary college expenses for one year:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$350.00	\$ 350.00	\$ 350.00
General Fee .....	120.00	120.00	120.00
Room-rent .....	125.00	125.00	175.00
Board .....	337.50	388.00	468.00
Laundry .....	20.00	25.00	35.00
Books .....	22.50	30.00	45.00
Athletic Fee (optional) ....	10.00	10.00	10.00
<i>Total</i> .....	<i>\$985.00</i>	<i>\$1,048.00</i>	<i>\$1,203.00</i>



# THE SUMMER SESSION

A. M. PROCTOR, A.B., A.M., Ph.D.  
*Director*

1949

First Term: June 14-July 21

Second Term: July 22-August 31

### ADMINISTRATIVE OFFICERS

ARTHUR HOLLIS EDENS, B.Ph., A.M., M.P.A., Ph.D., LL.D.  
PRESIDENT OF DUKE UNIVERSITY

PAUL MAGNUS GROSS, B.S., A.M., Ph.D.,  
VICE-PRESIDENT IN THE EDUCATIONAL DIVISION, AND MEMBER OF THE  
UNIVERSITY COMMITTEE ON THE SUMMER SESSION

CHARLES EDWARD JORDAN, A.B., LL.D.,  
VICE-PRESIDENT IN THE DIVISION OF PUBLIC RELATIONS, SECRETARY OF THE  
UNIVERSITY, AND MEMBER OF THE UNIVERSITY COMMITTEE ON  
THE SUMMER SESSION

HERBERT JAMES HERRING, A.B., A.M., LL.D.  
VICE-PRESIDENT IN THE DIVISION OF STUDENT LIFE, DEAN OF TRINITY COLLEGE,  
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SUMMER SESSION

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MARY GRACE WILSON, A.B.,  
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## FACULTY

- ANDERSON, LEWIS EDWARD, B.S., A.M., Ph.D.; *Botany* (Duke University).
- ARCHIE, WILLIAM COUNCIL, A.B., A.M.; *Romance Languages* (Duke University).
- ASHEROOK, ARTHUR G., JR., B.S., Ph.D.; *Economics* (Duke University).
- AYCOCK, THOMAS MALCOLM, B.S., M.S.; *Physical Education* (Duke University).
- BALSEIRO, JOSE AUGUSTIN, A.B., LL.B., University of Puerto Rico; *Literary Studies in Spain, France, Italy, England, Belgium, 1922-1928; Spanish* (University of Miami).
- BAUM, PAULL F., A.B., A.M., Ph.D.; *English* (Duke University).
- BEACH, WALDO, A.B., B.D., Ph.D.; *Religion* (Duke University).
- BERRY, EDWARD WILLARD, A.B., Ph.D.; *Geology* (Duke University).
- BEVAN, JOHN MORGAN, A.B., A.M.; *Psychology* (Duke University).
- BEVINGTON, MERLE MOWBRAY, A.B., M.A., Ph.D.; *English* (Duke University).
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- BLACKBURN, WILLIAM MAXWELL, A.B., B.A., M.A., Ph.D.; *English* (Duke University).
- BLOMQUIST, HUGO LEANDER, B.S., Ph.D.; *Botany* (Duke University).
- BOLMEIER, EDWARD CLAUDE, A.B., A.M., Ph.D.; *Education* (Duke University).
- BOOKHOUT, CAZLYN GREEN, A.B., A.M., Ph.D.; *Zoology* (Duke University).
- BOWMAN, FRANCIS EZRA, A.B., M.A., Ph.D.; *English* (Duke University).
- BRADSHAW, CHARLES KILGO, A.B., M.A., Ph.D.; *Chemistry* (Duke University).
- BROWN, CHANDLER WILCOX, B.S.; *Civil Engineering* (Duke University).
- BROWN, FRANCES, A.B., Ph.D.; *Chemistry* (Duke University).
- BROWNLEE, WILLIAM H., A.B., Ph.D.; *Religion* (Duke University).
- CANNON, JAMES, III, A.B., A.M., Th.B., Th.M., D.D.; *Religion* (Duke University).
- CARLITZ, LEONARD, A.B., A.M., Ph.D.; *Mathematics* (Duke University).
- CARPENTER, DAVID WILLIAM, A.B., A.M., Ph.D.; *Physics* (Duke University).
- CARR, JOHN WINDER, JR., A.B., A.M., Ph.D.; *Education* (Duke University).
- CASTELLANO, JUAN R., B.S., Ph.D.; *Romance Languages* (Duke University).
- CHILDS, BENJAMIN GUY, B.A., M.A.; *Education* (Duke University).
- CLYDE, PAUL HIBBERT, A.B., A.M., Ph.D.; *History* (Duke University).
- COILE, THEODORE STANLEY, B.S.F., M.F., Ph.D.; *Forestry* (Duke University).
- COOKE, DENNIS HARGROVE, A.B., M.Ed., Ph.D.; *Education* (Woman's College of the University of North Carolina).
- DAVIS, GIFFORD, A.B., A.M., Ph.D.; *Spanish* (Duke University).
- DRESSSEL, FRANCIS GEORGE, B.S., M.S., Ph.D.; *Mathematics* (Duke University).
- EASLEY, HOWARD, A.B., M.A., Ph.D.; *Education* (Duke University).

- EGERTON, FRANKLIN NICHOLAS, A.B., A.M., E.E.; *Electrical Engineering* (Duke University).
- ELLIOT, WILLIAM WHITFIELD, B.A., M.A., Ph.D.; *Mathematics* (Duke University).
- GERARD, KENNETH C., A.B.; *Physical Education* (Duke University).
- GERGEN, JOHN JAY, A.B., A.M., Ph.D.; *Mathematics* (Duke University).
- GRASTY, GEORGE MASON, A.B., M.A.; *German* (Duke University).
- GRAY, IRVING EMERY, B.S., M.S., Ph.D.; *Zoology* (Duke University).
- GROSSNICKLE, FOSTER E., A.B., A.M., Ph.D.; *Education* (Jersey City State Teachers College).
- HAINES, WILLIAM E., A.B., LL.B.; *Economics* (Duke University).
- HAMILTON, WILLIAM BASKERVILLE, JR., A.B., A.M., Ph.D.; *History* (Duke University).
- HART, HORNELL NORRIS, A.B., M.A., Ph.D.; *Sociology* (Duke University).
- HAUPT, GEORGE W., B.S., M.A., Ph.D.; *Education* (Glassboro State Teachers College).
- HERNÁNDEZ, GUSTAVO RENÉ, B.A., M.A.; *Spanish* (Birmingham-Southern College).
- HICKSON, ARTHUR OWEN, A.B., A.M., Ph.D.; *Mathematics* (Duke University).
- HIGHSMITH, JOHN HENRY, A.B., A.M., LL.D., D.Ed.; *Education* (Director of Instructional Service, North Carolina State Department of Public Instruction).
- HILLMAN, JAMES ELGAN, B.S., A.M., Ph.D.; *Education* (Director of Professional Service, North Carolina State Department of Public Instruction).
- HORN, EDWARD CHARLES, B.S., A.M., Ph.D.; *Zoology* (Duke University).
- HUNTER, RUTH, B.S.; *Nursing Education* (Duke University).
- JENSEN, HOWARD EIKENBERRY, A.B., A.M., Ph.D.; *Sociology* (Duke University).
- JOERG, FREDERICK C., A.B., M.B.A.; *Economics* (Duke University).
- JOHNSON, MYCHYLE WELLINGTON, A.B., Ph.D.; *Zoology* (Duke University).
- JONES, BARNEY LEE, A.B., B.D.; *Religion* (Duke University).
- JORDAN, ARCHIBALD CURRIE, A.B., A.M.; *English* (Duke University).
- KENYON, VAN LESLIE, JR., B.S.; *Mechanical Engineering* (Duke University).
- LANDON, CHARLES EDWARD, A.B., A.M., Ph.D.; *Economics* (Duke University).
- LANNING, JOHN TATE, A.B., A.M., Ph.D.; *History* (Duke University).
- LAYMAN, EMMA McCLOY, MRS., A.B., M.A., Ph.D.; *Education* (Woman's College of the University of North Carolina).
- LEMERT, BEN FRANKLIN, B.Sc. in Bus. Admin., M.A., Ph.D.; *Economics* (Duke University).
- LEWIS, RALPH ELTON, B.S., M.S. in M.E.; *Mechanical Engineering* (Duke University).
- MACMILLAN, LOUIS DE ROSSET, A.B., C.P.A.; *Economics* (Duke University).
- McLARTY, FURMAN GORDON, A.B., B.A., A.M., Ph.D.; *Philosophy* (Duke University).
- MABBOTT, THOMAS OLIVE, A.B., M.A., Ph.D.; *English* (Hunter College).



- MANCHESTER, ALAN KREBS, A.B., A.M., Ph.D.; *History* (Duke University).
- MAXWELL, WILLIAM CARY, A.B., A.M., Ph.D.; *German* (Duke University).
- MEYERS, HIRAM EARL, A.B., S.T.B., S.T.M.; *Religion* (Duke University).
- NAHM, HELEN, R.N., B.S., M.S., Ph.D.; *Nursing Education* (Duke University).
- NEGLEY, GLENN, A.B., Ph.D.; *Philosophy* (Duke University).
- OHLSON, JOHN A., B.S., M.A.; *Psychology* (Duke University).
- OOSTING, HENRY JOHN, A.B., M.S., Ph.D.; *Botany* (Duke University).
- OSTWALT, JAY HAROLD, A.B., A.M.; *Education* (Davidson College).
- PALMER, AUBREY E., B.S.E., C.E.; *Civil Engineering* (Duke University).
- PATTERSON, KARL BOCKMAN, A.B., A.M.; *Mathematics* (Duke University).
- PERRY, HAROLD SANFORD, A.B., Ph.D.; *Botany* (Duke University).
- POPE, MARVIN HOYLE, A.B., A.M.; *Religion* (Duke University).
- POSTMAN, LEO, A.B., A.M., Ph.D.; *Psychology* (Harvard University).
- POTEAT, MARY, A.B., A.M., Ph.D.; *English* (Duke University).
- PROCTOR, ARTHUR MARCUS, A.B., A.M., Ph.D.; *Education* (Duke University).
- RANKIN, ROBERT STANLEY, A.B., A.M., Ph.D.; *Political Science* (Duke University).
- RANKIN, WILLIAM WALTER, JR., B.E., M.A.; *Mathematics* (Duke University).
- RATCHFORD, BENJAMIN ULYSSES, B.S., A.M., Ph.D.; *Economics* (Duke University).
- RAYMOND, MARY LOIS, A.B., M.A.; *Romance Languages* (Duke University).
- REARDON, KENNETH JAMES, A.B., A.M.; *English* (Duke University).
- REED, FREDERICK JEROME, M.E., M.S.; *Mechanical Engineering* (Duke University).
- RICHARDS, CLAUDE HENRY, A.B., A.M., Ph.D.; *Political Science* (Duke University).
- ROBBINS, JOHN ALBERT, JR., B.A., M.A., Ph.D.; *English* (Duke University).
- ROBERTS, HENRY STOUTTE, JR., A.B., Ph.D.; *Zoology* (Duke University).
- ROBERTS, JOHN H., A.B., Ph.D.; *Mathematics* (Duke University).
- ROPP, THEODORE, A.B., A.M., Ph.D.; *History* (Duke University).
- ROSE, JESSE LEE, A.B., M.A., Ph.D.; *Latin and Greek* (Duke University).
- RUDISILL, MABEL, A.B., M.A., Ph.D.; *Education* (Duke University).
- SALINAS, PEDRO, Lic. en F. y L., D. en F. y L., Litt.D.; *Spanish* (Johns Hopkins).
- SANDERS, CHARLES RICHARD, B.Ph., M.A., Ph.D.; *English* (Duke University).
- SAVILLE, LLOYD, A.B., M.A.; *Economics* (Duke University).
- SAYLOR, JOHN HENRY, A.B., A.M., Ph.D.; *Chemistry* (Duke University).
- SCHETTLER, CLARENCE HENRY, A.B., A.M., Ph.D.; *Sociology* (Duke University).
- SCHUMACHER, FRANCIS XAVIER, B.S.; *Forestry* (Duke University).
- SHIELDS, JOHN HERMAN, A.B., A.M.; *Economics* (Duke University).

- SIMMONS, EDWARD CHRISTINA, A.B., A.M., Ph.D.; *Economics* (Duke University).
- SIMPSON, WILLIAM HAYS, A.B., A.M., Ph.D.; *Political Science* (Duke University).
- SIMS, VERNER M., B.A., M.A., Ph.D.; *Education* (University of Alabama).
- SLAY, JAMES MATTHEW, A.B., A.M.; *Education* (Duke University).
- SMITH, HILRIE SHELTON, A.B., Ph.D., D.D., Litt.D.; *Religion* (Duke University).
- SMITH, ROBERT SIDNEY, A.B., A.M., Ph.D.; *Economics* (Duke University).
- STROBEL, H. A., B.S., Ph.D.; *Chemistry* (Duke University).
- STUMPF, WIPPERT A., B.S., A.M., Ph.D.; *Education* (Duke University).
- SUGDEN, HERBERT WILFRED, A.B., A.M., Ph.D.; *English* (Duke University).
- SYDNOR, CHARLES SACKETT, A.B., Ph.D.; *History* (Duke University).
- TATUM, LOUISE, A.B., M.A.; *Spanish* (University of Chattanooga).
- THEISEN, W. W., A.B., A.M., Ph.D.; *Education* (Assistant Superintendent of Schools, Milwaukee, Wis.).
- THOMAS, JOSEPH MILLER, A.B., Ph.D.; *Mathematics* (Duke University).
- THOMPSON, EDGAR TRISTAM, A.B., A.M., Ph.D.; *Sociology* (Duke University).
- TRUESDALE, JAMES N., A.B., A.M., Ph.D.; *Greek* (Duke University).
- TURNER, ARLIN, B.A., M.A., Ph.D.; *English* (Louisiana State University).
- UHRHANE, LUELLA, R.N., B.S.; *Physical Education* (Duke University).
- UMSTATD, J. G., A.B., A.M., Ph.D.; *Education* (University of Texas).
- WALTON, A. J., A.B., A.M., Ph.D.; *Religion* (Duke University).
- WALTON, LORING BAKER, A.B., Lic. es L., Ph.D.; *Romance Languages* (Duke University).
- WARD, CHARLES EUGENE, A.B., A.M., Ph.D.; *English* (Duke University).
- WATSON, RICHARD L., JR., A.B., Ph.D.; *History* (Duke University).
- WETHERBY, JOSEPH CABLE, A.B., M.A.; *English* (Duke University).
- WHARTON, GEORGE WILLARD, JR., B.S., Ph.D.; *Zoology* (Duke University).
- WHITRIDGE, EUGENIA R., MRS., A.B., A.M., Ph.D.; *Sociology* (Duke University).
- WILSON, FLORENCE K., R.N., B.A., M.S.; *Nursing Education* (Duke University).
- WILSON, FREDERICK ELIPHAZ, A.B., A.M.; *German* (Duke University).
- WOLFF, MARGARET H., R.N., B.S., M.A.; *Nursing Education* (Veterans Administration).
- WOODY, ROBERT HILLIARD, Ph.B., A.M., Ph.D.; *History* (Duke University).
- ZENER, KARL EDWARD, Ph.B., A.M., Ph.D.; *Psychology* (Duke University).

## DUKE UNIVERSITY SUMMER SESSION

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Duke University, located at Durham, North Carolina, includes Trinity College, the Woman's College, the College of Engineering, the Graduate School of Arts and Sciences, the Divinity School, and the Schools of Law, Medicine, Nursing, and Forestry, and the Department of Education. The student body is drawn from the entire United States, with a representative group of foreign students. The enrollment for the Summer Session is somewhat smaller than for the regular year, but with a larger representation of graduate students.

In 1948 there was a total registration of 2,487 in the Duke University Summer Session, excluding the enrollments of the Schools of Medicine, Nursing, and Law. Of these registrations, 1,616 were enrolled for the first term, and 871 the second term. There were 584 graduate students admitted on the basis of Bachelor's or Master's degrees from 189 different colleges and universities. The total enrollment for the summer was drawn from forty-one states.

### CALENDAR AND REGISTRATION

The first term of Summer Session will open June 14 and close July 21. The second term will open July 22 and close August 31. Classes will meet five days a week, Monday through Friday. All Saturdays except June 25, July 9, and August 6 are holidays.

For the first term, Monday, June 13, is registration day. Any students who have not previously registered by mail should come to the Summer Session Office to submit their credentials for admission, select courses, make arrangements concerning room, and complete their registration. Students who have completed their registration by mail should come by the Summer Session Office and pick up their class cards. The Summer Session Office will be open from 9:00 A.M. to 1:00 P.M. and from 2:00 to 5:00 P.M. Students arriving after 5:00 P.M. will register Tuesday, June 14, beginning at 8:00 A.M. Regular classes will begin Tuesday, June 14 at 7:40 A.M. Class schedules will be posted on all the bulletin boards or may be obtained from the Summer Session office or the offices of the Deans of the various schools.

For the second term, Thursday, July 21, is registration day. The Summer Session office will be open for registration from 8:00 A.M. to 1:00 P.M. and from 2:00 to 5:00 P.M. Students arriving after 5:00 P.M., will register Friday, July 22, beginning at 8:00 A.M. Regular classes will begin Friday, July 22, at 7:40 A.M.

All graduate students matriculated for a degree must register their courses in the Graduate School Office at the beginning of each term of their residence at Duke University. This registration is in addition to the registration in the Summer Session Office. When reporting for registration in the Graduate School students should bring with them course

cards endorsed by the Director of Graduate Studies in the department of their major subject. Anyone registering in the Graduate School after the close of the Summer Session registration period will be charged a late registration fee of five dollars.

#### THE SUMMER SESSION PROGRAM: CREDITS

The Summer Session program is designed to serve:

1. Students now matriculated in the various schools and departments of Duke University, graduate and undergraduate, who wish to earn additional credits toward the completion of the work for their degrees.

2. Students matriculated in other colleges and universities who wish to earn credits to be transferred back to the school in which they are matriculated.

3. Graduates of accredited high schools and undergraduates with advanced standing who have been admitted to Duke University and who wish to enter upon their program of work in advance of the regular session.

4. Teachers in service who wish to earn credits for the renewal of their certificates, or to enter upon a program of work for an advanced degree, or to pursue certain courses which will contribute to the improvement of their teaching efficiency.

5. Candidates for the Master of Arts and Master of Education degrees who desire to complete degree requirements in a series of summers.

*Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers in service, before enrolling for certification credit, should consult the rules laid down by their State Board of Education. If necessary, they should send to their State Board of Education a list of the courses in which they plan to enroll and inquire whether these will be acceptable for certification credit.*

The normal courses in the Summer Session will meet daily, Monday through Friday, for an eighty minute period, throughout the term of six weeks. (Certain unit courses, particularly the beginning courses in English and the foreign languages, will meet twice daily. Elementary courses in the physical and natural sciences occupy a student's entire time daily and continue through a period of eight weeks, except Physics which will continue through ten weeks.) Each normal course carries a credit of three semester hours and two such courses constitute a full load for the student. No student is permitted to obtain credit for more than two such courses and no instructor teaches more than two. The maximum credit allowed for Summer Session work is one semester hour per week spent in residence and work. The maximum credit allowed for the six-weeks term, therefore, is six semester hours. Laboratory courses which are extended to eight or ten weeks carry eight or ten semester hours of credit.

Courses numbered 1-49 are primarily for Freshmen, or Freshmen, and Sophomores. Courses numbered 50-99 are ordinarily for Sopho-



mores, or Sophomores and Juniors. Courses numbered 100-199 are designed for Juniors and Seniors. Courses numbered 200-299 are planned for Seniors and graduates. Courses numbered from 300 up admit graduate students only and are of limited enrollment. Courses numbered from 200 up are usually limited in enrollment to approximately twenty-five students, and during the Summer Session consist almost entirely of graduate students. Graduate seminars are limited to fifteen students or fewer.

### ADMISSION

The Summer Session makes available the facilities of Duke University to those persons who can use them to good advantage and for serious purposes. Candidates for degrees, graduate and undergraduate, will be admitted on the same basis as they are admitted to Duke University for work during the regular session. Applicants who do not desire to matriculate for a degree may be admitted as unclassified students upon presentation of satisfactory evidence that they are qualified to do satisfactory work in the courses which they may elect to pursue.

*Undergraduates*—Undergraduate students now enrolled in Trinity College or the College of Engineering should enroll for the Summer Session just as they do for classes in the regular year. They should go to the office of Dean H. J. Herring and obtain the proper blank for enrollment and have their programs approved when they enroll. Undergraduate students now enrolled in the Woman's College should obtain the enrollment blank from Dean Hazen Smith and have their programs approved by her.

Men who desire to enter Duke University, either as Freshmen or undergraduates with advanced standing, should make application to Dean H. J. Herring, Duke Station, Durham, N. C. Women desiring to enter, either as Freshmen or undergraduates with advanced standing, should apply to Mrs. W. S. Persons, Chairman of the Committee on Admissions for the Woman's College, College Station, Durham, N. C.

Other undergraduates, men or women, Freshmen or upperclassmen, who desire to enter as unclassified students and who are already admitted or enrolled at another institution, should apply to A. M. Proctor, Director of the Summer Session, College Station, Durham, N. C. Students already matriculated in another institution should ask for the Course Approval Blank for use in securing the approval of the Dean of their school for the courses they elect and for use in transferring their credits back to the institution in which they are matriculated. Applicants who are entering college for the first time should have sent a certificate of admission from the institution in which they will be enrolled for the regular year.

Teachers in service who do not hold a Bachelor's degree but desire to attend the Summer Session in order to earn credits towards the renewal of or the advancement of their certificate and who do not wish to become candidates for a degree from Duke University should apply to A. M. Proctor, Director of the Summer Session, College Station, Durham, N. C., and have sent to him a transcript of their undergraduate college record. In some cases the presentation of their teaching certificate will be sufficient evidence for admission. Teachers who wish to matriculate for a

Bachelor's degree will apply for admission to the appropriate persons as indicated in the preceding paragraphs.

*Graduates*—Applicants who wish to matriculate for a graduate degree should apply directly to Paul M. Gross, Dean of the Graduate School, Duke Station, Durham, N. C., for a graduate school application blank and should have all colleges and universities they have attended send complete transcripts of their undergraduate and previous graduate work. When such applicants have been admitted the Summer Session Director will send the proper blank for the reservation of a room and course enrollment.

*Applicants who wish to earn credits toward the renewal of their certificates or who wish to enroll for certain courses on the graduate level and who do not plan to matriculate for a graduate degree may be admitted to the Summer Session as unclassified graduate students.* These should apply to A. M. Proctor, Director of the Summer Session, College Station, Durham, N. C., and should have sent to him a transcript of their undergraduate and previous graduate work. This is necessary in order that such students may be admitted to courses in which regularly matriculated graduate students are enrolled.

*All applications for admission to the graduate school should be made as early as possible in order to allow ample time for obtaining transcripts and for evaluating credentials.* Decisions on applications that come in after June first in all probability cannot be reached until after the opening of the Summer Session.

### EXAMINATIONS

Final examinations on courses are held on the last two days of each term. Examinations on courses taken during the first term will be held on Wednesday and Thursday, July 20 and 21. For the second term, final examinations will be held on Tuesday and Wednesday, August 30 and 31. Final examination for a course running three weeks will be held on the last day of the three-weeks period. Courses in science which run for a period of eight weeks will have two examination dates. The first examination will be held on Saturday, July 9, and the second will be held on Saturday, August 6. The examination for Physics S51 and for the first four weeks of all Chemistry courses will be held at the regular period of examination at the close of the first term, Thursday, July 21. Examination for the last four weeks of all Chemistry courses will be held Friday, August 19. Examination for Physics S52 will be held Friday, August 26. The University has no provision for giving examinations *in absentia*. Students absent from examinations for valid reasons are permitted a liberal extension of time to return to the University for completion of credit.

### ADMISSION TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree from an institution of recognized standing may be admitted to take courses, for which his record indicates preparation, in the Graduate School of Arts and Sciences of Duke University.

Applicants for admission who pursue graduate work toward an advanced degree for more than one summer will be required to take the Graduate Record Examination administered by the Graduate Record Office, 437 West 59th Street, New York City, which, on application, will suggest a convenient examination center. Regular examinations are given at convenient centers February, May, August, and October. Students who take the Graduate Record Examination must make their arrangements directly with the Graduate Record Office, which charges a nominal fee of five dollars. Admission to graduate standing is marked "provisional" until Graduate Record report has been made.

A candidate for admission to Graduate courses should ask the proper officer of the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work completed by him. Students who have attended more than one college or university should note that certification by one institution of work completed at another institution cannot be accepted. A transcript submitted by the candidate himself in no case will be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School at least fifteen days before the applicant proposes to enter courses; otherwise he may have to enter tentatively and as an unclassified student.

#### ADMISSION TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good," in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's."\* (2) The student in his undergraduate work must meet substantially the requirements for the A.B. or B.S. degree at Duke University.† Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with the requirements and are acceptable to the department of the student's major. A graduate student may be requested to withdraw from the University at the discretion of the Dean of the Graduate School.

\* The system of grading used in the Graduate School is as follows: "E," or "Exceptional"; "G," or "Good"; "S," or "Satisfactory." "S" is interpreted in terms of percentage grading as being at least ten points above the undergraduate "pass" of 70. "G" is normally interpreted as indicating a standing in the upper twenty-five percent of the department's students over a period of years.

† In meeting the requirements for the A.B. or B.S. degree at Duke University, a student is not allowed excessive concentration in any one field. The same principle is applied in evaluating the undergraduate record of candidates for admission to the Graduate School.



**ADVANCED DEGREES**

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), Doctor of Philosophy (Ph.D.), and Doctor of Education (Ed.D.). Credit for not more than one year of graduate work done in the Summer Session may be allowed toward the Doctor's degree. Students who obtain a Master's degree by summer work therefore cannot obtain further credit toward a Doctor's degree by Summer Session credits. Students interested in applying their credits toward a Doctor's degree should apply to the Dean of the Graduate School for a bulletin specifying the requirements for that degree.

**FEES AND EXPENSES**

A registration fee of \$20.00 is charged to all students for a summer term of six to eight weeks, or \$10 if course carried is four semester hours or less. The regular tuition fee is \$8.00 for each semester hour or a maximum of \$48.00 for a program of two courses running for a period of six weeks. For a full program running eight weeks the tuition fee is \$64.00 and for ten weeks the maximum fee is \$80.00. Teachers in active full-time service in schools and colleges are, upon proper application, allowed a tuition scholarship rebate amounting to one-half of the regular tuition, for not more than four terms of six weeks within a period of six years. After their fourth term teachers pay regular tuition charges. (Application for this scholarship rebate should be made to the Director of the Summer Session.) Graduate students completing the work for the Master of Arts degree in the Summer Session will pay a thesis supervision fee of \$25.00, due after the work for the degree has been completed. Likewise graduate students completing the work for the Master of Education degree pay an examination fee of \$25.00. Because of the extra services rendered a special fee of \$10.00 is charged students enrolled in the School of Spanish Studies.

Major expenses for the six-weeks term are estimated as follows:

Registration .....	\$20.00
Tuition (deduct \$24.00 for teachers in active service) .....	48.00
Medical service .....	3.50
Room-rent (where two persons occupy a room) .....	21.00
Board, estimated: ample \$90.00, minimum .....	60.00
Special fee for School of Spanish Studies .....	10.00
Books and class materials .....	\$7.00 to 10.00
Bus fare, laundry, and miscellaneous expenses will range from \$9.00 to 15.00	
The minimum expenses for teachers who receive the scholarship rebate should be approximately \$150.00. Maximum expenses will range up to \$200 or possibly \$225.00.	

**THE SCHOOL OF SPANISH STUDIES**

Because of the increased interest in Spanish studies throughout the nation and the great expansion of Spanish enrollments in the colleges and high schools of this region the Summer Session will again provide a School of Spanish Studies. The courses offered will include undergraduate work for beginners and through third-year Spanish as well as graduate



work and advanced seminars. There will be liberal opportunity for speaking the language, hearing lectures, holding discussions, and attending evening programs all conducted in Spanish. Students in the School of Spanish Studies will room in Crowell Quadrangle where only Spanish will be spoken. A separate dining hall will be used by the students where a member of the staff or a native Spanish-American assistant will be assigned to each table to lead the conversation. All conversation in the dining hall will be in Spanish. All students enrolled in the School of Spanish Studies will take their meals in this dining hall unless excused by the Director of the School.

#### **INSTITUTE FOR TEACHERS OF MATHEMATICS**

The Institute for Teachers of Mathematics will hold its ninth annual session August 8-19 inclusive. The theme of the Institute is "Mathematics at Work." There will be morning, afternoon, and evening meetings each day of the Institute. Applications of mathematics to current problems in industry and science will be stressed. Lecturers of recognized ability in industrial research and teachers of note have been secured. Approximately eight study groups will be arranged under the leadership of outstanding teachers.

The Mathematics Laboratory now being established at the University will provide helpful materials and suggestions for the members of the Institute. The registration fee will be \$10.00. Those who so desire can secure a room in the University dormitories at \$1.50 per day. Meals can be secured in the University dining halls, cafeteria style. A separate folder containing full details and program of the Institute will be ready for distribution about April 1. For further information write the Director of the Summer Session or W. W. Rankin, Director of the Mathematics Institute, College Station, Durham, N. C.

#### **THE INSTITUTE OF NURSING EDUCATION**

In addition to the courses in Nursing Education, this summer there will be held for the third year an Institute of Nursing Education. The Institute will be held for a period of one week, July 25-30. The program will deal with "Improving Nursing Care Through an Effective Clinical Teaching." Nurses who wish to attend the Institute should write to Dr. Helen Nahm, Director of the Division of Nursing Education, Box 656, College Station, Durham, N. C., for an application blank. The fee for the Institute is \$5.00. A room may be secured in the nurses' residence hall at \$1.50 per day. Meals may be secured in the University dining halls, cafeteria style, at very reasonable prices. For detailed information concerning the Institutes and the courses in Nursing Education write to the Director of the Summer Session, College Station, Durham, N. C.

## COURSES OF INSTRUCTION

*This is a condensed description of courses. For a full description, see Bulletin of the Summer Session.*

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### EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week, Monday through Friday, for six weeks unless otherwise indicated. Where a course is conducted for a shorter or longer period than the usual six weeks, the dates for the courses are shown in italics following the course description. For most courses the regular daily period lasts for eighty minutes and such courses carry three semester hours of credit. This is indicated by the abbreviation 3 s.h. A few courses may meet for two regular periods daily or may meet for a sixty-minute period. In such cases the courses will carry more or less credit. The credit hours allowed for each course are indicated under the description of the course. The numbers given courses offered in the Summer Session are the same numbers used in describing courses in the regular term, with the letter "S" preceding; for example, English S1 in the Summer Session would correspond to English 1 of the regular term.

### BOTANY

PROFESSOR HUGO L. BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING (WEST CAMPUS); PROFESSOR PAUL J. KRAMER, DIRECTOR OF GRADUATE STUDIES—04 BIOLOGY BUILDING (WEST CAMPUS)

**S202. Genetics.**—Prerequisite: one year of botany or zoology, or equivalent, and college algebra. 3 s.h. Mr. PERRY

**S235. Introduction to Field Botany.**—Prerequisite: one year of botany or equivalent. 3 s.h. Mr. ANDERSON

**S236. Field Botany.**—Prerequisite: S235 or equivalent. 3 s.h. Mr. ANDERSON

**S252. Plant Physiology.**—3 s.h. Mr. KRAMER

Courses following given at the Marine Laboratory, Beaufort, N. C. (Write for special bulletin of the Duke University Marine Laboratory.)

**S211. Structure and Classification of Algae.**—6 s.h. Mr. BLOMQUIST

**S256. Plant Ecology.**—6 s.h. Mr. OOSTING

**S225. Special Problems.**—Hours to be arranged.  
Mr. BLOMQUIST, Mr. HUMM, Mr. OOSTING

**S359. Research.**—Hours to be arranged.  
Mr. BLOMQUIST, Mr. HUMM, Mr. OOSTING

## CHEMISTRY

PROFESSOR JOHN H. SAYLOR, EXECUTIVE OFFICER OF THE DEPARTMENT—115A  
 CHEMISTRY BUILDING (WEST CAMPUS); PROFESSOR WARREN C. VOSBURGH,  
 DIRECTOR OF GRADUATE STUDIES—211 CHEMISTRY BUILDING  
 (WEST CAMPUS)

- S1. General Inorganic Chemistry.—4 s.h. Mr. STROBEL
- S2. General Inorganic Chemistry.—4 s.h. Mr. STROBEL
- S61. Fundamentals of Analytical Chemistry.—Prerequisites: Chemistry  
 1-2 and Mathematics 2 or equivalent. 4 s.h. Mr. SAYLOR
- S151. Organic Chemistry.—Prerequisite: Chemistry 61. 4 s.h.  
 Mr. BRADSHAW
- S152. Organic Chemistry.—Prerequisite: Chemistry 151. 4 s.h.  
 MISS BROWN
- S275. Thesis Research.—2 to 8 s.h. STAFF

## ECONOMICS

PROFESSOR CALVIN B. HOOVER, CHAIRMAN—115 PHYSICS BUILDING (WEST  
 CAMPUS); PROFESSOR JOSEPH J. SPENGLER, DIRECTOR OF GRADUATE  
 STUDIES—304 GRAY BUILDING (WEST CAMPUS)

- S51. Principles of Economics.—3 s.h. Mr. LANDON
- S52. Principles of Economics.—3 s.h. Mr. ASHBROOK
- S57. Principles of Accounting.—3 s.h. Mr. MACMILLAN
- S58. Principles of Accounting.—3 s.h. Mr. MACMILLAN
- S103. Transportation.—3 s.h. Mr. LANDON
- S115. Economic Geography: Teachers' Course.—3 s.h. Mr. LEMERT
- S116. Economic Geography and Industrial Organization.—3 s.h.  
 Mr. LEMERT
- S138. Business Statistics.—3 s.h. Mr. SAVILLE
- S143. Corporation Finance.—3 s.h. Mr. JOERG
- (Though not a prerequisite, Economics 57-58, Principles of Accounting, is  
 recommended to students electing this course.) Mr. JOERG
- S144. Investments.—Prerequisite: Economics 57-58 and 143. 3 s.h.
- S153. Money, Credit, and Banking.—3 s.h. Mr. ASHBROOK
- S158. Insurance.—3 s.h. Mr. SAVILLE
- S171. Advanced Accounting.—3 s.h. Mr. SHIELDS
- S172. Advanced Accounting.—3 s.h. Mr. SHIELDS
- S181. Business Law: Contracts, etc.—3 s.h. Mr. HAINES
- S182. Business Law: Partnerships, etc.—3 s.h. Mr. HAINES
- S217. Population, Resources, and Standards of Living.—3 s.h.  
 Mr. SPENGLER

- S218. Business Cycles.—3 s.h. Mr. SIMMONS
- S236. Public Finance.—3 s.h. Mr. RATCHFORD
- S265. International Trade and Finance.—3 s.h. Mr. SPENGLER
- S275. Advanced Industrial Accounting and Management.—Prerequisite: Economics 171-172 and permission of the instructor. 3 s.h. Mr. BLACK
- S276. Advanced Industrial Accounting and Management.—Prerequisite: Economics S275. 3 s.h. Mr. BLACK

### EDUCATION

PROFESSOR WILLIAM A. BROWNELL, CHAIRMAN—1C2 WEST DUKE BUILDING (EAST CAMPUS); PROFESSOR JOHN W. CARR, JR., ACTING DIRECTOR OF GRADUATE STUDIES—1B1 WEST DUKE BUILDING (EAST CAMPUS)

#### PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education must take fifteen semester hours of work from the courses specifically listed or accepted under this division.)

- S213. Problems in the Organization and Administration of Elementary School.—3 s.h. Mr. THEISEN
- S234. Secondary School Organization and Administration.—3 s.h.  
I Mr. UMSTATTD  
II Mr. COOKE
- S283. Administering the Teaching Personnel.—3 s.h. Mr. COOKE
- S300. Introduction to Educational Research.—3 s.h. Mr. STUMPF
- S323. Public School Finance.—3 s.h. Mr. STUMPF
- S343. State and County School Administration.—3 s.h.  
I Mr. HIGHSMITH  
II Mr. STUMPF
- S300X. Thesis Seminar.—3 to 6 s.h. STAFF

#### PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

- S205 Curriculum Problems in Secondary Education.—3 s.h. Mr. UMSTATTD
- S208A. Mental Tests and Applications.—Prerequisite: Education S258 or six semester hours of other work in educational psychology or psychology 3 s.h. Mr. EASLEY
- S222. The Curriculum and Materials of the Elementary Grades.—3 s.h. Mr. HILLMAN
- S232A. Supervision of Instruction: Elementary School Section.—3 s.h. Mr. THEISEN



S232B. Supervision of Instruction: High School Section.—3 s.h.

MR. HIGHSMITH

S258. Educational Measurements.—Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h.

MR. SIMS

S287. Problems of Mentally and Educationally Retarded Children.—3 s.h.

MRS. LAYMAN

S288. Problems of Mental Hygiene and Education.—3 s.h. MRS. LAYMAN

S304. The School as an Institution.

MR. BOLMEIER

S305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h.

MR. CARR

S372X. Thesis Seminar.—3 to 6 s.h.

STAFF

#### EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)

(The Master of Education degree is not offered in this division. Master of Arts candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

S216. Psychological Principles of Secondary Education.—3 s.h.

MR. CHILDS

S237A. Investigations in Reading: Primary Section.—3 s.h.

MISS RUDISILL

S237B. Investigations in Reading: Grammar Grade Section.—3 s.h.

MISS RUDISILL

S237. Investigations in Reading.

MISS RUDISILL

S247. Investigations in Arithmetic.—3 s.h.

MR. GROSSNICKLE

S258. Educational Measurements.

MR. SIMS

S268. Investigations in Geography.—3 s.h.

MR. HILLMAN

S287. Problems of Mentally and Educationally Retarded Children.—3 s.h.

MRS. LAYMAN

S288. Problems of Mental Hygiene and Education.—3 s.h. MRS. LAYMAN

S300. Introduction to Educational Research.—3 s.h.

MR. STUMPF

S317. The Psychological Principles of Education.—3 s.h.

MR. SIMS

#### SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division. Teachers of Religion in public schools should register in this division unless they prefer to use Religion as their major subject.)

S205. Curriculum Problems in Secondary Education.—3 s.h.

MR. UMSTATT

- S206. Sociological Foundations of Secondary Education.—3 s.h.  
MR. CHILDS
- S215. Educational and Vocational Guidance.—Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h.  
MR. CHILDS
- S216. Psychological Principles of Secondary Education.—3 s.h.  
MR. CHILDS
- S225. The Teaching of History and the Social Studies.—3 s.h.  
MR. MANCHESTER
- S232B. Supervision of Instruction: High School Section.—3 s.h.  
MR. HIGHSMITH
- S234. Secondary School Organization and Administration.—3 s.h.  
I MR. UMSTATTD  
II MR. COOKE
- S246. The Teaching of High School Mathematics.—(Identical with Mathematics S204.) 3 s.h.  
MR. RANKIN
- S276. The Teaching of High-School Science.—Prerequisite: at least eighteen semester hours of science in college. 3 s.h.  
MR. HAUPT
- S334X. Thesis Seminar in Secondary Education.—3 s.h.  
MR. CHILDS

#### ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology, if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester hours of work described or listed under Elementary Education.)

- S213. Problems of the Organization and Administration of the Elementary School.—3 s.h.  
MR. THEISEN
- S222. The Curriculum and Materials of the Elementary Grades.—3 s.h.  
MR. HILLMAN
- S232A. Supervision of Instruction: Elementary School Section.—3 s.h.  
MR. THEISEN
- S237A. Investigations in Reading: Primary Section.—3 s.h.  
MISS RUDISILL
- S237B. Investigations in Reading: Grammar Grade Section.—3 s.h.  
MISS RUDISILL
- S237. Investigations in Reading.—3 s.h.  
MISS RUDISILL
- S258. Educational Measurements.—3 s.h.  
MR. SIMS
- S267. Teaching Elementary School Science.—3 s.h.  
MR. HAUPT
- S268. Investigations in Geography.—3 s.h.  
MR. HILLMAN
- S287. Problems of Mentally and Educationally Retarded Children.—3 s.h.  
MRS. LAYMAN
- S288. Problems of Mental Hygiene and Education.—3 s.h. MRS. LAYMAN

- S304. The School as an Institution.—3 s.h. Mr. BOLMEIER  
 S305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h.  
 Mr. CARR

## UNDERGRADUATE COURSES

(By permission Seniors may enter graduate courses numbered below 300. Attention is called to the fact that toward the A.B. degree not more than six semester hours of method courses are allowed to count.)

- S84. Social Foundations of Education.—3 s.h. Mr. SLAY  
 S88. Psychological Foundation of Modern Education.—3 s.h.  
 Mr. OSTWALT

## COURSES IN NURSING EDUCATION

- S124N. Teaching of Nursing Arts.—3 s.h. Miss HUNTER  
 S192N. Principles of Learning and Methods of Teaching in Schools of  
 Nursing.—3 s.h. Miss NAHM  
 S193N. Ward Administration and Teaching.—3 s.h. Miss WOLFF  
 S195N. Personnel Work in Schools of Nursing.—3 s.h. Miss WOLFF  
 S310N. Organization and Administration of Schools of Nursing.—4 s.h.  
 Miss WILSON, Miss NAHM

## ENGINEERING

PROFESSOR WILLIAM HOLLAND HALL, DEAN OF THE COLLEGE OF ENGINEERING—  
 135 ENGINEERING BUILDING

- G.E. S1-2. Engineering Drawing.—4 s.h. Mr. LEWIS  
 G.E. S57. Statics.—Prerequisite: course G. E. 1-2. Mathematics 52 con-  
 current. 3 s.h. Mr. PALMER  
 G.E. S107. Strength of Materials.—Prerequisite: course 57. 3 s.h.  
 Mr. PALMER  
 G.E. S128. Hydraulics.—Prerequisite: course G.E. 57. 3 s.h. Mr. LEWIS  
 C.E. S110.—Plane Surveying.—Prerequisites: G.E. 1 and trigonometry.  
 3 s.h. Mr. BROWN AND ASSISTANTS  
 E.E. S123-124. Principles of Electric Circuits and Machinery.—8 s.h.  
 Mr. EGERTON  
 M.E. S52. Kinetics-Mechanism.—Prerequisites: G.E. 2, G.E. 57, Mathe-  
 matics 52. 4 s.h. Mr. REED  
 M.E. S101-102. Engineering Thermodynamics.—Prerequisites: Mathemat-  
 ics 52, Physics 52, M.E. 55. 6 s.h. Mr. KENYON

## ENGLISH

PROFESSOR WILLIAM H. IRVING, ACTING CHAIRMAN—2G5 WEST DUKE BUILDING  
 (EAST CAMPUS); PROFESSOR PAUL F. BAUM, DIRECTOR OF GRADUATE  
 STUDIES, 402 LIBRARY BUILDING (WEST CAMPUS)

Master's candidates in English are required to complete at least three semester hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester hours of graduate work should take also the bibliography course, S301, at their earliest opportunity.

- S1. English Composition.—3 s.h. I Mr. SUGDEN  
 II Mr. JORDAN

S2. English Composition.—3 s.h.	I Mr. SUGDEN II Mr. JORDAN
S55. Representative English Writers.—3 s.h.	MR. BOWMAN
S56. Representative English Writers.—3 s.h.	MR. BOWMAN
S63. A Survey of English Poetry.—3 s.h.	MISS POTEAT
S64. A Survey of English Poetry.—3 s.h.	MISS POTEAT
S114. The Teaching of Speech.—3 s.h.	MR. WETHERBY
S119. History of the Theatre.—3 s.h.	MR. REARDON
S121. Play Production.—3 s.h.	MR. REARDON
S131. English Literature, 1832-1900.—3 s.h.	MR. SANDERS
S137. American Literature.—3 s.h.	MR. ROBBINS
S139. The Speaking Voice.—3 s.h.	MR. WETHERBY
S143. English Literature: Elizabethan and Seventeenth Century.—3 s.h.	MR. BLACKBURN
S157. Contemporary Fiction.—3 s.h.	MR. BLACKBURN
S221. English Literature of the Early Nineteenth Century.—3 s.h.	MR. SANDERS
S222. English Literature of the Early Nineteenth Century.—3 s.h.	MR. BEVINGTON
S224. English Literature of the Later Nineteenth Century.—3 s.h.	MR. BEVINGTON
S233. American Literature since 1870.—3 s.h.	MR. TURNER
S234. American Literature since 1870.—3 s.h.	MR. MABBOTT
S244. Studies on Whitman and Poe.—3 s.h.	MR. MABBOTT
S251. English Literature in the Seventeenth Century.—3 s.h.	MR. WARD
S252. English Literature in the Seventeenth Century.—3 s.h.	MR. WARD
S308X. Seminar in American Literature.	MR. TURNER
S349d. Seminar in English Literature.	MR. BAUM

### FORESTRY

PROFESSOR CLARENCE F. KORSTIAN, DEAN OF THE SCHOOL OF FORESTRY AND  
DIRECTOR OF GRADUATE STUDIES—GG09 (WEST CAMPUS)

C.E. S110.—Plane Surveying.—Prerequisites: G.E. 1 and trigonometry. 3 s.h.	MR. BROWN
S150. Forest Surveying.—Prerequisites: Civil Engineering, S110 Plane Surveying, or equivalent. 5 s.h.	MR. COILE
S151. Forest Mensuration.—4 s.h.	MR. SCHUMACHER
S357. Research in Forestry.—2 to 12 s.h.	THE STAFF



**FRENCH**

PROFESSOR B. R. JORDAN, CHAIRMAN OF THE DEPARTMENT OF ROMANCE  
LANGUAGES—214 CARR BUILDING (EAST CAMPUS)

- S1. Elementary French.—3 s.h. MISS RAYMOND  
 S2. Elementary French.—3 s.h. MISS RAYMOND  
 S3. French Prose.—Prerequisite: French S1-S2 or two years of high-school French. 3 s.h. MR. ARCHIE  
 S4. French Prose.—Prerequisite: French S3. 3 s.h. MR. ARCHIE  
 S51. Introduction to French Literature.—Prerequisite: French 3-4 or equivalent. 3 s.h. MR. WALTON  
 S52. Introduction to French Literature.—Prerequisite: French 51 or equivalent. 3 s.h. MR. WALTON

**GEOGRAPHY**

See courses S115 and S116 listed under Economics.

**GEOLOGY**

- S51. General Geology.—4 s.h. MR. BERRY  
 S52. General Geology.—4 s.h. MR. BERRY

**GERMAN**

PROFESSOR CLEMENT VOLLMER, CHAIRMAN—205 PAGE BUILDING  
(WEST CAMPUS)

- S1. Elementary German.—3 s.h. MR. GRASTY  
 S2. Elementary German.—3 s.h. MR. GRASTY  
 S3. Intermediate German.—3 s.h. MR. WILSON  
 S4. Intermediate German.—Prerequisite: German 3. 3 s.h. MR. WILSON  
 S109. German Prose Fiction.—3 s.h. MR. MAXWELL  
 S110. German Prose Fiction.—3 s.h. MR. MAXWELL

**GREEK AND ROMAN LITERATURE****GREEK**

- S15. Mythology.—3 s.h. MR. TRUESDALE  
 S121. Homer.—3 s.h. MR. ROSE  
 S122. Greek Literature: The Great Tragedies.—3 s.h. MR. TRUESDALE

**LATIN**

- S112. Roman Literature in English Translation.—3 s.h. MR. ROSE

**HEALTH AND PHYSICAL EDUCATION**

WOMAN'S COLLEGE DIVISION—PROFESSOR JULIA GROUT, CHAIRMAN—GYMNASIUM  
(EAST CAMPUS); TRINITY COLLEGE DIVISION—DIRECTOR E. M. CAMERON,  
CHAIRMAN—GYMNASIUM (WEST CAMPUS)

**HEALTH EDUCATION**

- S41. Personal Health Problems.—3 s.h. MISS UHRHANE  
 S112. School Health Problems.—3 s.h. MISS UHRHANE  
 S132. Materials and Methods in Health Education for Teachers in Secondary Schools.—3 s.h. MR. AYCOCK

## PHYSICAL EDUCATION: TRINITY COLLEGE DIVISION

S56. Swimming.—1 s.h.	STAFF
S57. Tennis-Volleyball.—'1 s.h.	STAFF
S65. History and Principles of Physical Education.—3 s.h.	MR. AYCOCK
S172. Recreational Leadership.—3 s.h.	MR. GERARD
S173. Individual Gymnastics.—'3 s.h.	MR. AYCOCK
S182. The Administration of Health and Physical Education in Secondary Schools.—3 s.h.	MR. GERARD

## HISTORY

PROFESSOR WILLIAM T. LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—  
2B WEST DUKE BUILDING (EAST CAMPUS)

For admission to candidacy for a Master's degree in History the student must present a total of eighteen semester hours of prior work in History, of which at least six must be in American History if he plans to take his major work in that field. Before enrolling for thesis supervision, candidates for the Master's degree are required to complete at least three semester hours of seminar work and are strongly urged to enroll for this work in the second term of their attendance in the Summer Session. (See courses numbered 300 or above.)

S51. Historical Background of the World Today 1500-1871.—3 s.h.	MR. ROPP
S52. Historical Background of the World Today 1871-1949.—3 s.h.	MR. HAMILTON
S92. Political and Social History of the United States since 1865.—3 s.h.	MR. WATSON
S105. English Constitutional History.—3 s.h.	MR. HAMILTON
S113. America in the Twentieth Century.—3 s.h.	MR. WATSON
S203. The United States, 1850-1876.—3 s.h.	MR. WOODY
S215. The Foreign Policy and Diplomacy of the United States 1772-1877.—3 s.h.	MR. CLYDE
S231. The Hispanic Colonies of the New World.—3 s.h.	MR. LANNING
S237. Social and Intellectual Development of the Old South.—3 s.h.	MR. SYDNOR
S235. War in the Modern World.—'3 s.h.	MR. ROPP
S315. Seminar in Southern History.—3 s.h.	I MR. SYDNOR II MR. WOODY
S321. Seminar in the History of the Spanish-American Colonies.—3 s.h.	MR. LANNING
S343. Seminar.—3 s.h.	MR. CLYDE

## MATHEMATICS

PROFESSOR J. J. GERGEN, CHAIRMAN—201-I PHYSICS BUILDING (WEST CAMPUS);  
PROFESSOR J. H. ROBERTS, DIRECTOR OF GRADUATE STUDIES—201-I  
PHYSICS BUILDING (WEST CAMPUS)

For admission to candidacy for the degree of Master of Arts with major in Mathematics, a student must have a minimum of twenty-four semester hours credit for course work in Mathematics and related fields. This course work

must be approved by the Department through the Director of Graduate Studies. It must include differential and integral calculus and an additional six semester hours of work in mathematical courses of at least Junior level.

- Solid Geometry.** MR. ELLIOTT
- S1. Intermediate Algebra.—3 s.h.** MR. PATTERSON
- S2. Plane Trigonometry.—3 s.h.** MR. ROBERTS
- S5. College Algebra.—3 s.h.** MR. ELLIOTT
- S50. Plane Analytic Geometry.—Prerequisite: Mathematics S2 and S5.** MR. GERGEN  
3 s.h.
- S51. Calculus I.—Must be preceded or accompanied by Mathematics S50.** MR. PATTERSON  
3 s.h. II MR. HICKSON
- S52. Calculus II.—Prerequisite: Mathematics S51. 3 s.h.** MR. DRESSEL
- S53. Calculus III.—Prerequisite: Mathematics S52. 3 s.h.** MR. THOMAS
- S204. Teaching of Mathematics.—Prerequisite: Calculus. 3 s.h.** MR. RANKIN
- S206. Plane Geometry and Trigonometry from the Advanced Standpoint.—** MR. THOMAS  
Prerequisite: Calculus. 3 s.h.
- S227. Theory of Numbers.—Prerequisite: Calculus. 3 s.h.** MR. CARLITZ
- S251. Infinite Series.—Prerequisite: Calculus. 3 s.h.** MR. GERGEN
- S259. Solid Analytic Geometry.—Prerequisite: Calculus. 3 s.h.** MR. ROBERTS
- S275. Probability.—Prerequisite: Calculus. 3 s.h.** MR. DRESSEL
- S389X. Thesis Seminar.—Hours to be arranged.** MR. CARLITZ

### MEDICINE

Special summer course available in the Medical School.  
Medical Mycology.

### PHILOSOPHY

ASSOCIATE PROFESSOR HENRY S. LEONARD, EXECUTIVE OFFICER OF THE DEPARTMENT;  
PROFESSOR ROBERT PATTERSON, DIRECTOR OF GRADUATE STUDIES—31 WEST  
DUKE BUILDING (EAST CAMPUS)

- S49. Introduction to Ethics.—3 s.h.** MR. McLARTY
- S99. Fundamentals of Christian Morality: An Introduction to Christian** MR. McLARTY  
**Ethics.—3 s.h.**
- S116. The Development of Philosophy in America.—3 s.h.** MR. NEGLEY
- S208. Political Philosophy.—3 s.h.** MR. NEGLEY

### PHYSICS

PROFESSOR WALTER M. NIELSEN, CHAIRMAN—101 PHYSICS BUILDING  
(WEST CAMPUS)

For admission to candidacy for a Master's degree with major in Physics, students must have completed a minimum of twelve semester hours of Physics. This course work, together with the work in the field of the proposed minor, must be approved by the Department through the Director of Graduate Studies.

- S51. General Physics.—Prerequisite: Mathematics 2-5 or equivalent.** MR. CARPENTER  
5 s.h.

- S52. General Physics.—Prerequisite: Physics S51. 5 s.h. MR. CARPENTER  
 S353. Thesis Seminar.—Credits and hours to be arranged. THE STAFF

### POLITICAL SCIENCE

PROFESSOR ROBERT S. RANKIN, CHAIRMAN; PROFESSOR ROBERT R. WILSON, DIRECTOR  
 OF GRADUATE STUDIES—311 LIBRARY BUILDING (WEST CAMPUS)

- S61. American Government and Politics.—3 s.h. MR. RICHARDS  
 S62. American Government and Politics.—3 s.h. MR. RICHARDS  
 S125. American Political Parties and Practical Politics.—3 s.h. MR. SIMPSON  
 S146. Legislation.—3 s.h. MR. SIMPSON  
 S209. State and Local Government in the United States.—3 s.h. MR. RANKIN  
 S292. Municipal Administration.—3 s.h. MR. RANKIN

### PSYCHOLOGY

PROFESSOR DONALD K. ADAMS, CHAIRMAN—201 BIVINS BUILDING (EAST CAMPUS);  
 PROFESSOR KARL ZENER, DIRECTOR OF GRADUATE STUDIES—  
 217A SCIENCE BUILDING (EAST CAMPUS)

For admission to candidacy for a Master's degree in psychology the student must present a total of eighteen semester hours in psychology beyond Psychology 91-92, at least six semester hours of which must be taken in Senior-Graduate courses. In addition he must have credit for Zoology 1-2 or equivalent, and six semester hours in sociology or anthropology.

- S91-92. General Psychology.—6 s.h. I MR. OHLSON  
 II MR. BEVAN  
 S204. Motivation and Learning.—3 s.h. MR. POSTMAN  
 S206. Social Psychology.—3 s.h. MR. POSTMAN  
 S207. Psychology of Memory, Thinking, and Perceiving.—3 s.h. MR. ZENER  
 S226. Psychology: Historical and Theoretical.—3 s.h. MR. ZENER

### RELIGION

PROFESSOR HAROLD A. BOSLEY, DEAN OF THE DIVINITY SCHOOL—110 DIVINITY  
 SCHOOL (WEST CAMPUS); PROFESSOR H. E. MYERS, CHAIRMAN OF THE  
 DEPARTMENT OF RELIGION—204 DIVINITY SCHOOL (WEST CAMPUS);  
 PROFESSOR H. SHELTON SMITH, DIRECTOR OF GRADUATE STUDIES  
 —302 DIVINITY SCHOOL (WEST CAMPUS)

- S51. The History of the Hebrew People.—3 s.h. I MR. JONES  
 II MR. BROWNLEE  
 S52. New Testament Life and Literature.—3 s.h. I MR. JONES  
 II MR. BROWNLEE  
 S103. The Prophets of the Old Testament.—3 s.h. MR. MYERS  
 S114. The Life and Teachings of Jesus.—3 s.h. MR. MYERS  
 S181. The Nature and Early Development of Religion.—3 s.h. MR. CANNON  
 S182. Living Religions of the World.—3 s.h. MR. CANNON



- S203. Introduction to the Old Testament (Pre-exilic Period).—3 s.h.  
MR. POPE
- S291. Christian Ethics I.—3 s.h. MR. BEACH
- S296. Movements in American Religious Thought.—3 s.h. MR. SMITH
- S298. Modern American Christology.—3 s.h. MR. SMITH
- S309. History of the Ancient Near East.—3 s.h. MR. POPE
- S358. Christian Education and the Community.—3 s.h. MR. WALTON
- S393. The Christian Interpretation of History.—Prerequisite: Christian Ethics 291. 3 s.h. MR. BEACH

### SOCIOLOGY

PROFESSOR HOWARD E. JENSEN, CHAIRMAN—310 LIBRARY (WEST CAMPUS);  
PROFESSOR HORNELL HART, DIRECTOR OF GRADUATE STUDIES—307  
LIBRARY BUILDING (WEST CAMPUS)

- S101. General Sociology.—3 s.h. MRS. WHITRIDGE
- Note:** Attention is called to the fact that Sociology 91-92, 101, 111, or 112 is prerequisite to all the following courses in the Department.
- S137. The Negro in America.—3 s.h. MR. THOMPSON
- S153. The Fields of Social Work.—3 s.h. MRS. WHITRIDGE
- S235. Urban Sociology.—3 s.h. MR. THOMPSON
- S243. Social Attitudes and Collective Behavior.—3 s.h. MR. SCHETTLER
- S246. Public Opinion and Propaganda.—3 s.h. MR. SCHETTLER
- S249. Child Welfare.—3 s.h. MR. JENSEN
- S250. Marriage and the Family.—3 s.h. MR. HART
- S271. Social Pathology.—3 s.h. MR. HART
- S286. Social Ethics.—3 s.h. MR. JENSEN

### SPANISH

PROFESSOR BRADY R. JORDAN, CHAIRMAN OF DEPARTMENT OF ROMANCE LANGUAGES  
AND DIRECTOR OF GRADUATE STUDIES—214 CARR BUILDING (EAST CAMPUS);  
ASSOCIATE PROFESSOR JUAN CASTELLANO, DIRECTOR OF THE SCHOOL OF  
SPANISH STUDIES—115 CARR BUILDING (EAST CAMPUS)

- S1. Beginning Spanish.—3 s.h. MISS TATUM
- S2. Beginning Spanish.—3 s.h. MISS TATUM
- S3. Intermediate Spanish.—3 s.h. MR. DAVIS
- S4. Intermediate Spanish.—3 s.h. MR. HERNÁNDEZ
- S65. Introduction to Modern Spanish Literature.—3 s.h. MR. DAVIS
- S68. Introduction to Spanish-American Literature.—3 s.h. MR. HERNÁNDEZ

**S174. Spanish Diction.**—Prerequisite for credit: three years of college Spanish. 3 s.h. MR. CASTELLANO

**S256. Great Modern Poets of Hispanic America.**—3 s.h. MR. BALSEIRO

**S263. Spanish Novelists of the Twentieth Century.**—3 s.h. MR. BALSEIRO

**S267. Human Types in the Spanish Classic Literature.**—3 s.h. MR. SALINAS

**S282. Romanticism and Realism in the 19th Century.**—3 s.h. MR. SALINAS

### ZOOLOGY

PROFESSOR IRVING E. GRAY, CHAIRMAN—218 BIOLOGY BUILDING (WEST CAMPUS);  
PROFESSOR GEORGE T. HARGITT, DIRECTOR OF GRADUATE STUDIES—  
326 BIOLOGY BUILDING (WEST CAMPUS)

For admission to candidacy for a Master's degree in Zoology, a student should have completed an undergraduate major in Zoology (courses in General Science and Botany are not counted as a part of a Zoology major).

**S1. General Zoology.**—4 s.h. MR. HORN

**S2. Animal Biology.**—Prerequisite: Zoology 1. 4 s.h. MR. WHARTON

**S53. Comparative Vertebrate Anatomy.**—Prerequisite: Zoology 2. 4 s.h. MR. ROBERTS

**S92. General Embryology.**—4 s.h. MR. JOHNSON

**S203. Marine Ecology.**—6 s.h. MR. GRAY

**S274. Marine Invertebrate Zoology.**—6 s.h. MR. BOOKHOUT

**S353. Research.** MR. GRAY AND MR. BOOKHOUT

# DUKE UNIVERSITY

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## DEGREES AND HONORS CONFERRED

(1949)

## ROLL OF STUDENTS

(1948-1949)

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

THE WOMAN'S COLLEGE

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

THE DIVINITY SCHOOL

THE SCHOOL OF LAW

THE SCHOOL OF MEDICINE

THE SCHOOL OF NURSING

THE SCHOOL OF FORESTRY

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Atkins, Mary Ann	Brown, Jean Marie
Atwood, John Warren	Brown, Sarah Lee
Aycock, William Glenn	Brundage, Blair George
Ayerst, Robert Irvin	Bryan, Dillard Bass
Bailey, Edgar Lee	Buck, Elizabeth Williams
Baker, Betty Griscom	Bunn, Agnes Sidney
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Banks, Sam Alston, Jr.	Bynum, William Edwards, Jr.
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Beach, Betty Evelyn	Cato, Wilma Lucile Roberts
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Beck, Martha Katherine	Chapman, Loren Max
Becker, Frances Elizabeth	Charrier, Doris
Bell, William Braswell, Jr.	Cheek, Ernest Calvin
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Berne, Edgar	Chidester, Robert Paul
Best, Edward Gene	Chillingworth, Mehrtens Gould
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Bishopric, Annie Bruce Millner	Clouse, Mildred Terrill
Bishopric, Welsford Farrell	Coleman, William Patrick
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Blackham, Barbara Elois	Copeland, Marion Evelyn
Blackmon, Benjamin Boinest	Cosby, Jayne Hathaway
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Bloom, Nancy Jean	Cove, Enta Harriette
Blue, Janet Shirley	Covington, William Horace, Jr.
Bockmiller, Elizabeth Spencer	Cox, Mary Dixon
Bodfish, Ralph Elwin	Crane, Marcia Florine



- Croft, John Lyle  
 Crum, Ashlyn  
 Culbreth, James Harold  
 Curry, John Robert, Jr.  
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 Damren, Jerome Henry  
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 Deming, Jeanne Champion  
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 Derr, Mary Elizabeth  
 Des Jardins, Elizabeth Ann  
 de Shazo, Thomas Edward, Jr.  
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 Dewar, Lillian Daniel  
 Dickson, William A.  
 Dibble, Frances Joan  
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 Domingos, William Robert  
 Donaldson, Jenny Dye  
 Drakeford, William White  
 Driscoll, Richard Hopkins  
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 Dudley, Frank Thomas  
 Dudley, Theodore Reinhold  
 Duncan, Marion Louise  
 Duncan, Martha Moore  
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 East, Doris Eleanor  
 Edmonds, Eugene Gardner  
 Edwards, Ian Keith  
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 Eirich, Robert Lee  
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 Evans, Harold David, Jr.  
 Evans, Paul Franklin, Jr.  
 Evenson, Jerome  
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 Feamster, Mary Lou  
 Featherston, Alwyn Louis  
 Fels, Fred Edward  
 Ferguson, Carolyn  
 Field, Shirley Augusta  
 Finke, Doris Elaine  
 Fisher, Robert Joseph, III  
 Fitzsimons, Joseph Graham, Jr.  
 Fleming, James Carlton  
 Fleming, William B.  
 Flowers, Claire Howard  
 Flynn, Wilson Paul  
 Fogleman, Ross Lee, Jr.  
 Folger, Fred, Jr.  
 Fonvielle, Betsy Keaton  
 Forbes, Daniel Sylvester  
 Forbus, Georg'Ellen Davis  
 Forrest, Otto Norman, Jr.  
 Forrester, Eugene Norwood  
 Foster, Jack  
 Freeman, William Shuford  
 French, Robert, Jr.  
 Frye, Robert D.  
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 Gatling, Wilfred C., Jr.  
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 Gibson, Robert Stansill  
 Giese, Richard W.  
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 Hanlon, David Gordon  
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 Harrell, Virginia Dick Blackwell  
 Harris, Allan Richardson  
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 Harris, Henry Sear  
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- Harriss, Dorothy Louise  
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 Harward, Betty Sue  
 Hassell, Thoroughgood Fleetwood  
 Haughton, William Graham  
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 Hedden, Nancy Erwin  
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 Hendrickson, Bartlett Roy  
 Herlong, Bettis Grigsby, Jr.  
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 Hernandez, Harley Holt  
 Herrick, John Waters  
 Herrick, Mary McKinney  
 Hess, Donald G.  
 Heykoop, Alida Carolina Jacoba  
 Hicks, Julius Norton  
 Higgins, Margaret Elizabeth  
 Hillman, Edgar Lafayette, Jr.  
 Hodgkins, Lewis  
 Hoff, Elizabeth DuBose  
 Hogan, John Thomas  
 Holcroft, Charles Tilden, Jr.  
 Holden, Benjamin Thomas  
 Holloman, Milton Carden, Jr.  
 Honeycutt, Robert Lee, Jr.  
 Hood, Howard James  
 Hoppin, Stuart Bliss, Jr.  
 Horn, Robert Campbell  
 Houck, William Bryan  
 Howe, William Bell White, Jr.  
 Huckabee, Thomas Franklin  
 Huie, Ineze Jeanette  
 Hull, Patricia Ann  
 Hurley, Betsy John  
 Hutchings, Lydia Marie  
 Hutchins, Robert White  
 Ingber, Lawrence J.  
 Isenhour, Dwight Lyman  
 Izlar, Laurie Virginia  
 Jackson, John Jerrold  
 Jackson, William Hutchinson  
 Jenkins, Harryette Cockrell  
 Jenkins, Martin Edward  
 Jennings, William Beatty, Jr.  
 Johnson, Guy Monroe, Jr.  
 Johnson, Marshall Howard  
 Jones, George Poole, III  
 Jones, John Robert  
 Jones, Robert Garnett  
 Jordan, Rose Anne  
 Jordan, Samuel Kelly  
 Kansteiner, Dorothy Joan  
 Karmazin, John  
 Karukstis, Paul, Jr.  
 Kaus, Tyler Garretson  
 Kearns, Tom Johnston, Jr.  
 Keck, Charles, Jr.  
 Kevan, Thomas J.  
 Keller, Harry Le Roy, Jr.  
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 Kendall, Ruth Lane  
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 Kent, Alfred Henry  
 Kerr, Barbara Anne  
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 Kiely, Thomas Michael  
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 Kinsey, Josephine Ann  
 Kirsh, Herbert  
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 Koval, George Jerome  
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 Krauss, Edward  
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 Kritzer, Richard Gaul  
 Kuykendall, Rowena Beth  
 Lacombe, Barbara Ann  
 Landis, Richard Vincent  
 Lantz, William McGowan, 2nd  
 Lapp, Robert Edward  
 Lasley, Donald Gray  
 Lasley, Emily Sue  
 Lauer, Joan  
 Lauffer, Richard Albert  
 Laughlin, Helen Elizabeth  
 Lawson, John Craddock, Jr.  
 Learmont, Carol Louise  
 Le Compte, Anne Louise  
 Lee, Laurence Frederick, Jr.  
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 Levin, Burton E.  
 Levin, David Harold  
 Lewis, Sheila Caroline  
 Ligon, Elsie Pauline  
 Lindgren, Jack Kendall  
 Lindsey, Willis Callaway, Jr.  
 Lineberry, Joseph L.  
 Litchard, Anne Loring  
 Little, Norma Lee  
 Long, John Courtenay  
 Loomis, Robert Duane  
 Ludlum, Warren O.  
 Lundeberg, Mary Naomi  
 Lupton, Frederick Arthur, Jr.  
 Lynch, Luby Raeford, Jr.  
 Lynch, Irene Claire  
 Maas, John Peter  
 MacFeiggan, Jack Murray  
 Mackey, Constance Jean  
 MacSpadden, Mary Jean  
 Mall, Nancy Elizabeth  
 Manley, Emma Hall  
 Mann, Walter Robert  
 Manning, Kenneth Richard  
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 Marshall, Ted Hall  
 Mason, Read  
 Mason, William Albert

Matthaus, Barbara Lee	Newton, Robert Julius, Jr.
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McAlduff, Thomas Philip	Nichols, Robert Hill
McCarthy, Edward J.	Nickerson, Charles Augustus
McClure, Margaret Elizabeth	Nixon, Janet Mildred
McCrary, Martha Penn	Noble, Jean Leverton
McCusker, Edward F.	Nobles, Dorothy Gertrude
McDowell, Clyde Harrison	Nolan, Virgil Atticus, Jr.
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Merritt, William Duke	Peake, Robert Sanders
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Meuche, Marion Davis	Penfield, Margaret Anne
Middleworth, Chester Paul	Pfefferkorn, Robert Gillimer, Jr.
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Miller, Victor John	Pickens, Celia Elizabeth
Miller, William James	Pierce, John Arthur
Miner, Richard Warren	Polier, Arthur
Minnotte, James Owen	Poston, Nanthaniel Avent
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Moore, Patricia Lou	Prince, Rosalie Estelle
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Morgan, Gene Morton	Proctor, Ella Anne
Morgan, Olen Eben	Purvis, Julius Henry, Jr.
Morton, Marion Billy	Putnam, Gerrie Price
Moser, Nina Sue	Pyatt, Clyde Dwight
Mulligan, Alla Purse, Jr.	Quain, John Joseph
Murphy, William Carl	Query, Joan
Murray, John Kevin	Quinn, Marie
Naylor, B. Claire	Rabley, Joseph E.
Nazor, Gordon Lang	Rankin, Anna Weedon
Neal, Muriel Frances	Rauch, Robert Joseph
Nelson, Margaret McMurran	Rawlings, Charles Edward, Jr.
Nelson, Roland Hill, Jr.	Ray, Jack L.
Nelson, William Edward	Reams, Caroline
Nesbitt, Martha Phillips	Reckenbeil, Arthur J., Jr.
Nesmith, Nancy	Reed, Carolyn Lois
Neuhauser, Marilyn Justyn	Regan, James Robert
Newell, Bruce, Jr.	Reifsnnyder, Natalie Fay
Newman, Francis Wesley	Reyle, John Edward

- Reynolds, Dorothy Yarbrough  
 Rich, Robert Ellett  
 Richards, Joan Elizabeth  
 Richardson, Gene Stevens  
 Ricks, Dorothy Spoon  
 Rigioni Maroto, Rodrigo  
 Robins, James Atkins, III  
 Robinson, Mary Rowland  
 Robinson, Nancy Anne  
 Rodgers, Tillie Virginia  
 Rogers, Rembert Alexander, Jr.  
 Roland, William Elvin  
 Rueckert, Arthur Wilfred, Jr.  
 Rushing, Betty Marie  
 Sager, Samuel Ott  
 Sager, Stanley Melvin  
 Sampley, Eloise Tilley  
 Sampley, Roy Chesler, Jr.  
 Sands, George Lewis  
 Sapp, Carl Freeman  
 Satchwell, Edith Eyre  
 Savage, Jean  
 Sawyer, Ellen Louise  
 Scafuro, Angelo Charles  
 Scarrow, David Shotwell  
 Scarrow, Howard Albert  
 Schmahl, Frank Devlin  
 Schmid, Nancy Louise  
 Schwartz, Roslyn Charlotte  
 Scioscia, Louis Thomas  
 Scupine, William Frederick  
 Seay, Thomas Waller, Jr.  
 Shaffer, John Taylor  
 Shankle, Claude Harold  
 Shankweiler, Fred L., Jr.  
 Shapleigh, Shirley  
 Sharpe, Albert M.  
 Shaw, Constance Eleanor  
 Shaw, E. Donald  
 Shealy, George L., Jr.  
 Shepherd, Roy Cornelious, Jr.  
 Sherman, Ira Gray  
 Shoaf, Rita Marie  
 Shugar, Gilbert Lee  
 Siachos, Thalia Arthur  
 Siler, Gail Andrew  
 Simard, Harry Lawrence, Jr.  
 Simon, Willie Lee  
 Simpson, Lawrence Ruben  
 Simpson, Sarah Louise  
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 Skaale, Elizabeth Ann  
 Skinner, Marilyn Dale  
 Slaven, Katharine Hooper  
 Smith, Allen Parker  
 Smith, Arthur George, Jr.  
 Smith, Betty Maude  
 Smith, Charles William  
 Smith, Milly Roberts  
 Smith, Norwood Graham  
 Smith, William James, Jr.  
 Smith, Yandell Roberts  
 Speir, David O.  
 Spencer, Aline Hufham  
 Stanford, Stephen Dunlap  
 Stanley, Larimer Vaughan  
 Stark, Robert Lee  
 Starnes, Dale Sylvanus  
 Stern, Margaret Melinda  
 Stewart, Jane Ellerbe  
 Stewart, Robert Ray  
 Stickel, Delford LeFew  
 Stivers, Marilyn Anne  
 Stockton, Manley Stillwell  
 Storrs, Phil  
 Suddard, Neal  
 Sullivan, Rachel  
 Summers, James Arey  
 Summers, Joseph Vincent, Jr.  
 Sumner, June Sharon  
 Swanson, William Edward  
 Swartswelter, Anne  
 Swiger, Quintin Gilbert  
 Tarter, James William  
 Taylor, Edd Wren  
 Taylor, Mildred Louise  
 Taylor, Neil Christopher  
 Taylor, Robert C.  
 Taylor, William Warren  
 Thacker, Frank Arrington  
 Thomas, Bernard Hylton  
 Thomas, Martha Launius  
 Throneburg, James Curry  
 Tinsley, Barbara Lee  
 Tissot, Robert Halsey  
 Trainer, John Carlton, Jr.  
 Trigg, William Gladstone  
 Tyndall, Rommie Winfred  
 Tynes, Edith Elizabeth  
 Upchurch, Roger Stanley  
 Upchurch, Thomas Christian  
 Van Fossen, Richard Waight  
 VanNortwick, Kathryn Ward  
 Van Steenburgh, Richard P.  
 Vasquez, Hector Steven  
 Vaughan, Earl Jackson  
 Vick, Lois Hutchinson  
 Vosburgh, Mary Elizabeth  
 Wade, Henry Ormond  
 Wadlington, Bernice  
 Waggoner, Allison Barnwell  
 Walker, Audrey Kendall  
 Walker, Charles Richard  
 Walker, Fred McKinley, Jr.  
 Walker, William Brewster  
 Wall, Arthur J., Jr.  
 Walter, Grace Pirkey  
 Walters, Elizabeth Roberta  
 Walton, Loring Baker, Jr.  
 Wanzer, Philip Hayden



Ward, Robert Lee  
 Ward, Robert Paul  
 Waring, Mary Louise  
 Warren, Nancy Douglas  
 Warta, Clarence Emmett  
 Watson, Lucy Rutledge  
 Wechlser, Leonard Burton  
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 Wells, William Eston, Jr.  
 Werk, George Bennett  
 Wessinger, James Arnold  
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 Westbrook, Betty Sue  
 Westbrook, Janet Virginia  
 Whalen, Walter Fintan  
 Whalen, William Anthony, Jr.  
 Wharton, Joanne Clark  
 Whetstone, Gloria Kathleen  
 Whitaker, O'Kelley  
 White, Charles Palmer  
 White, Dorothea Jeanne  
 White, John Mercer, Jr.  
 Whittle, Howard H., Jr.  
 Wicker, Max William

Widenhouse, Frances Marie  
 Wilkins, Jane Pittman  
 Willeford, Brice James, Jr.  
 Williams, Sally Hall  
 Williams, Thomas Duke, Jr.  
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 Wilson, Rose Marie  
 Wimberly, Mary Mack  
 Wimberly, Patricia Anne  
 Wise, Virginia Lucille  
 Withers, Donald Erwin  
 Woodard, Dorothy Whitehead  
 Wong, Wendell Gordon  
 Woodbury, Philip S.  
 Woodley, William Thomas  
 Woolard, Jodie D., Jr.  
 Wooten, Lillian Hooker  
 Wright, Harry Buford  
 Wurmstich, Roberta Annamarie  
 Yeager, Bearl Alvin, Jr.  
 Yorke, Douglas Arthur  
 Younger, Kenneth Glenn, Jr.  
 Zipplies, Anne Callaway  
 Zittrouer, Shirley Ann

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Aldridge, Cyde Lee  
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 Cole, Benjamin Theodore  
 Copenhaver, Edward Holmes, III  
 Davison, Alexander Thayer  
 Doggett, Lewis Carpenter  
 Eilers, Norman Lee  
 Gray, Cecil Robbins, Jr.  
 Hirata, Arthur Atsumbo  
 Hickman, Mary Frey  
 Hough, Mary Jane  
 Hunt, Francis Milton  
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 Melvin, Jean Isabella  
 Messerly, Patricia Ann  
 Morrison, Harriett Elizabeth  
 Richeson, Raymond McGready  
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 Saylor, Letty Lois  
 Shaw, Dorothy Patricia  
 Sherwood, Horace Moore, Jr.  
 Smith, Anne  
 Smith, Mary Jane  
 Turpin, David Howard  
 Vahey, Nancy

*In Nursing Education*

Bason, Betty Green  
 Bryant, Jeanette Elizabeth  
 Crawley, Hattie Mildred  
 Henson, Lillie Mary  
 Horton, Theresa Elizabeth

Jennings, Martha Belle  
 Smith, Mary Elizabeth Maldoon  
 Tropman, Anna McDonough  
 Waggoner, Ann Carr

*In Civil Engineering*

Baily, Alfred Ewing  
 Cheek, Leon Clarence, Jr.  
 Clark, Robert Shields  
 Craniotis, Jorge E.  
 Haines, Robert Earl  
 Hakan, M. Joseph  
 Hall, Robert P.

Hardee, Walter Person, Jr.  
 Hardison, Frederick Leon  
 Herrmann, Melvin Richard  
 Hoke, Kenneth Brown  
 Keith, Hudie Clellan, Jr.  
 Larner, Edward Lee  
 Lawton, William Stanley

Lucas, Marvin W.  
McMahon, William Wallace  
Pickett, Earl Judson  
Saunders, Stanley Stewart, Jr.  
Shepherd, Robert E.

Simpson, George Dupuy  
Stone, Hugh Lloyd, Jr.  
Stottlemeyer, Paul Clinton  
Torgerson, Torger Edward

*In Electrical Engineering*

Barnes, Albert E.  
Bradley, Emmett Hughes  
Bragg, Sidney Harold  
Bryan, William Arnold, Jr.  
Bugg, Richard Alexander, Jr.  
Carson, Joseph Edwin, III  
Corley, Charles Birette, Jr.  
Cranford, Henry Lee, Jr.  
Duncan, Joseph Meacham  
Elliott, Henry Kerley  
Goodman, Fred Watson  
Harper, Jackson Bourque  
Holbrook, Harold Douglas  
Holland, Robert Lauman  
Jackson, Harold Mackenzie, II  
Jackson, Philip Wilford  
Janatka, Joseph  
Kirkland, William Hiram  
Knight, Thomas Gordon

Lipscomb, George Winfred  
Meacham, Hudson Peavy, Jr.  
Norris, Earl Jay  
Robbins, Guy Lindell  
Robnett, Joe James, Jr.  
Rudisill, Michael Erastus  
Scisco, Robert William  
Short, Frederick William  
Siegfried, Francis Hammond  
Sloan, Randle C.  
Stentz, Donald Alan  
Thompson, Elwood Reynolds  
Thompson, Oscar Mills  
Tillinghast, Arthur  
Turner, Harlan R., Jr.  
Watson, John E., Jr.  
Wells, Joseph Fisher  
West, Raymond Troy  
Williams, Earlwood Robbins

*In Mechanical Engineering*

Bartlett, William Herman  
Baynes, Bascom Thornton, Jr.  
Bingham, Alvin Leland, Jr.  
Bolyard, Paul Kenneth  
Bowles, Robert Wickizer  
Brown, Lloyd Lee  
Campbell, Everett Connley  
Clark, Hamilton Yancey  
Cooper, Albert Brandon  
Davidson, Lindell Alf  
Dee, John B., Jr.  
Fishe, Gerald R. A.  
Floyd, William Stewart  
Freeze, Jack Edward  
Goodman, Howard  
Hunter, Jack Watkins  
Huntoon, Murray Leslie  
Kenefick, John Michael

Knabe, Lloyd Condon, Jr.  
Lareau, Ernest W.  
Linkous, Walter W.  
Mallonné, Richard Carvel, Jr.  
Miller, William F.  
Moore, William Philip, Jr.  
Morgan, Joseph Patrick  
Nabow, Stanley Ellman  
Olive, Ryland Wrenn, Jr.  
Rhame, John M., Jr.  
Robbins, Donald S.  
Ross, Joseph Almon, Jr.  
Simon, Robert Raymond  
Starks, Norman Ralph  
Ticktin, Boyd L.  
Warren, Julian M.  
Wilson, Gordon Bruce  
Wise, John Southey

DIPLOMA IN NURSING

Anderson, June Elizabeth  
Ashmore, Newlin  
Atkinson, Miriam  
Auter, June Madeleine  
Ballard, Frances Whitley  
Barnhart, Betty  
Bennett, Jean Elizabeth  
Bland, Myra Virginia  
Bowers, Queene Elizabeth  
Bray, Ida Paulette  
Carson, Lenna Ilene  
Chesson, Peggy Eloise

Clark, Mary Elizabeth  
Darden, Margaret Elizabeth  
Davis, Ruth Ermine  
Farrar, Helen Lorraine  
Flake, Mary Eva  
Franklin, Helen Bryson  
Franklin, Virginia Ann  
Garland, Zeta Rae  
Hamm, Wanda Jean  
Honeycutt, Annie Rebecca  
Hunt, Barbara Seymour  
Kerce, Mary Ellen

Loflin, Doris Ellen  
 Long, Peggy Swafford  
 Mitchell, Margaret Marie  
 Moncure, Frances Daniel  
 Murray, Mary Alexander  
 Neighbour, Mary Frances  
 Osborne, Edith Irene  
 Pepper, Ella Elizabeth  
 Plyler, Helen Katharine  
 Robbins, Agnes June Deans

Scott, Helen Arnold  
 Sites, Patricia Elizabeth  
 Smith, Mildred Stucker  
 Solomon, Jean  
 Strickler, Vivian Lorrain  
 Turbeville, Marie Inez  
 Vail, Eleanor  
 Van Steenberg, Neal Marion  
 Wall, Bettye  
 Wright, Mary Jane

## B.S. DEGREE IN NURSING

Anderson, June Elizabeth  
 Ashmore, Newlin  
 Atkinson, Miriam  
 Ballard, Frances Whitley  
 Bennett, Jean Elizabeth  
 Bland, Myra Virginia  
 Bowers, Queene Elizabeth  
 Brower, Miriam Timmons  
 Chesson, Peggy Eloise  
 Clark, Mary Elizabeth  
 Darden, Margaret Elizabeth  
 Davis, Ruth Ermine  
 Farrar, Helen Lorraine  
 Flake, Mary Eva  
 Franklin, Helen Bryson  
 Garland, Zeta Rae  
 Hastings, Margaret Fahey

Loflin, Doris Ellen  
 Moncure, Francis Daniel  
 Murray, Mary Alexander  
 Neighbour, Mary Frances  
 Pepper, Ella Elizabeth  
 Plyler, Helen Katharine  
 Robbins, Agnes June Deans  
 Scott, Helen Arnold  
 Sites, Patricia Elizabeth  
 Smith, Mildred Stucker  
 Solomon, Jean  
 Strickler, Vivian Lorrain  
 Turbeville, Marie Inez  
 Vail, Eleanor  
 Van Steenberg, Neal Marion  
 Wall, Bettye

## B.S. DEGREE IN MEDICINE

Abernathy, Robert Shields  
 Arnold, James Schoonover  
 Horne, Francis Gregg

McPherson, Harry Thurman  
 Willett, Robert Walter

## M.R.E. DEGREE

Bailey, Ruby May  
 Box, Hazel Melvin  
 Brown, Charlotte Churchill

Marrotte, Esther Pierce  
 Wang, Yien-pei

## M.ED. DEGREE

Butcher, Jared Arthur  
 Gantz, Bess McGlothlin  
 Jenkins, Wilmer Mitchell

Murphy, Lyle Johnson  
 Sharpe, Annie Lane  
 Zunner, Thelma Butler

## M.F. DEGREE

Alvis, Richard James  
 Bliss, Verne Fairbanks  
 Brigham, Lyman Henry  
 Burns, Joe Gay  
 Butcher, Gene Lacy  
 Carey, Charles Major, Jr.  
 Cook, Richard Cairns  
 Corthell, Richard Eldon  
 du Toit Deetlefs, Philippus Petrus  
 Dwyer, Walter William, Jr.  
 East, John William  
 Fitzgerald, Odie LeRoy  
 Haigh, William Sunday  
 Haynes, Winfred Newman

Holman, Jack  
 Hortin, Ross  
 Hunt, Francis Milton  
 Johnston, James Gilbert  
 Kelly, Jack Edwin  
 Kemp, Arne Kalervo  
 Koenig, Walter Louis  
 Marlin, Clifton Boyd  
 McClay, Thomas Alan  
 Olson, David Fredrick, Jr.  
 Ordell, Arthur William, Jr.  
 Perkins, Eugene George, Jr.  
 Rogers, John Groe  
 Slade, Russell Stewart

Smith, John David  
Sutton, Richard Francis  
Wagoner, Eddie Raymond  
Warner, John Robinson

Waters, William Eugene  
Wenger, Karl Frederick  
Worsham, Jesse Norman  
Zak, Bratislav

## A.M. DEGREE

Anderson, Norman Gulack  
Batson, Wade Thomas, Jr.  
Brown, Joshua R. C., III  
Brown, Margaret June  
Burnside, Dunklin Sullivan, Jr.  
Canon, Alfred Orville, Jr.  
Chernuchin, Vivian  
Chreitzberg, Augustus M., Jr.  
Cooper, Charles Dewey  
Copeland, William LeRoy  
D'Amico, Frank J.  
Emerson, Charles Edward  
Farthing, Carrie Lee  
Gilbert, Mary Jo  
Gross, Dawyer Dincoff  
Guilds, John Caldwell, Jr.  
Hamilton, Thomas Theodore  
Harris, James Thurloe, Jr.  
Harrison, Monique W.  
Herrington, Alfred Harold  
Hobgood, Alton A.  
Hones, Edward Wheeler, Jr.

Hubbell, Jay Broadus, Jr.  
Huntsman, Carmen  
James, Keith Warren  
Lehnberger, Sigrid Louise  
Martinelli, Robert Owens  
Nelson, Norman Kent  
O'Brien, Joseph William  
Oppenheim, Stanley R.  
Reece, James B.  
Reed, Frederick Venable  
Shih, Chung-Wen  
Shuford, Haywood Rhyne, Jr.  
Silva, Joseph A.  
Stancik, Edwin Edward  
Stephenson, Harold Patty  
Tsai, Tze-ting  
Wagner, Fred Reese  
Walter, Eugene Victor  
Watts, Robert Johnson  
Wellborn, Mary Moss  
Williams, Hatcher Crenshaw

## B.D. DEGREE

Brown, Jarvis Padgham  
Carroll, Kenneth Lane  
Carson, Raymond Pressley  
Dinas, Johnny Anastatious  
Duncan, Henry Clark  
Farrell, Earl Thompson  
Frazier, John Thurman, Jr.  
Gough, Louis Francis  
Griffin, Johnson Linwood  
Hipps, Robert Haroldean  
Hirschi, Carlton Frederick  
Hook, Ray Price  
Horner, Thomas Marland  
Hudnall, Michael Benjamin

James, Howard Glenn  
Lanier, Hoyle Glenn  
Mattheiss, Theodore Henry, Jr.  
Morton, Vernon Adam  
Murray, Jerry Dwight  
Paylor, Earle Whitaker, Jr.  
Porter, Joseph Edward  
Rowland, Ray Marion  
Royal, James Peyton  
Rucker, Driftwood Hayne  
Scoggins, Eugene King  
Spivey, Wingate Bryant  
Turner, James Dixon  
Wells, William Miles, Jr.

## LL.B. DEGREE

Allen, Louis Carr, Jr.  
Bader, William A.  
Beaman, Nathaniel, III  
Benedetti, Francis Anthony  
Benson, Clifford Charles  
Blanchard, Charles Fuller  
Boone, Edwin Eugene, Jr.  
Borst, Alan Wills  
Bouldin, Joseph Edmunds  
Butz, Walter H.  
Clodfelter, Robert Franklin  
Daugherty, Duncan W., Jr.  
Dozier, Riley Clarence, Jr.  
Eddy, Arthur Crowell

Farrer, William Cameron  
Gantt, Samuel Fox  
Goldberg, Robert Abraham  
Griffith, Brantley B.  
Hicks, Claude Thomas  
Howard, James Arthur  
Jones, Marvin Douglas  
Kusturiss, Michael Emanuel  
Leaming, William VanDeventer  
Logan, Ben Harrison, Jr.  
Lowry, William John  
Maynard, Frederick Charles, Jr.  
Moppert, Edward J., Jr.  
Moy, Cornelius Bernard, Jr.



Owens, Hollis Monroe, Jr.  
 Page, Allen P., Jr.  
 Parker, Benjamin Joseph  
 Pearce, Alden Gray  
 Rowley, Robert Batcheller  
 Sears, Leila  
 Shoemaker, Franklin Reynolds  
 Smith, Sidney W., Jr.  
 Speth, Charles Theodore

Stephen, James B.  
 Taylor, David Kerr  
 Welton, Robert Glenn  
 Whitener, Joe Park  
 Whitman, Elkins Oliphant  
 Williams, Silas, Jr.  
 Wolff, Robert Stanley  
 Yelverton, Calvin Robert, Jr.

## LL.M. DEGREE

Daniels, James Burton  
 Herbert, Bueford Gilbert  
 Johnson, Benjamin Franklin, Jr.  
 Lemmon, William James

North, John Edward  
 Stanford, William Henry, Jr.  
 Thomas, Earl C.

## M.D. DEGREE

Abernathy, Robert Shields  
 Alexander, Henry Clifford, Jr.  
 Ambrose, Kenneth Eugene  
 Anderson, James Bertram  
 Anderson, John Powell  
 Barry, Carey Neilsen  
 Battle, William Clement  
 Bishopric, George Andrew  
 Coker, Carolyn  
 Coonrad, Evelyn Vail  
 Cornett, Eugene Jones  
 Corse, Herbert Lucien  
 Crutcher, James Carroll  
 Davis, Daniel William, Jr.  
 Davis, Wayne Edward  
 Farrior, Richard Thomas  
 Flowe, Benjamin Hugh  
 Fouch, J. Ann  
 Furst, William Rush Dunton  
 Geibel, John William, Jr.  
 Gentry, William Harold  
 Grattan, James Patrick  
 Grimes, Gloria Lee  
 Hallet, Robert Lawrence  
 Harman, Louis Elmore, Jr.  
 Isham, Robert Lind  
 Kibler, Robert Franklin  
 Kingsbury, Edward Parsons, Jr.  
 Krugly, Melvin Arnold  
 Kuhn, Joseph Laesser

Lange, Ramon Linus  
 Latty, Samuel George  
 Ling, Charles Cho-sung  
 Loftus, Lawrence Robert  
 McCall, William, Jr.  
 Miller, Walker Rutledge  
 Morgan, James LeRoy  
 Northup, Aldrich Holt  
 Page, Ernest Benjamin, Jr.  
 Page, Nina Musselman  
 Rabenberg, Jack Rodney  
 Rannick, Gilbert Anthony  
 Riff, Emmanuel Raphael  
 Roof, Betty Sams  
 Schmidt, Dana Ray  
 Schnapner, Harold Warren  
 Schwartz, Lawrence Herbert  
 Scott, James Lee, Jr.  
 Shipp, James Herbert  
 Smith, Rosalind Gower  
 Solon, Earl Norman  
 Titchener, Antoinette Baca  
 Titchener, James Lampton  
 Tompkins, James Kenneth  
 Tracey, John Francis  
 Warshaw, Joseph  
 Weatherly, Carl Holmes, Jr.  
 Wilson, John Winkle, Jr.  
 Zimmerman, Erwin Harold

## D.F. DEGREE

Hofmann, Julian George

Marra, George Gori

## PH.D. DEGREE

Bass, Arnold Marvin, B.S., The College of the City of New York; A.M., Duke University.

Dissertation: *Fluorescence Spectra of Some Monosubstituted Benzenes in the Near Ultraviolet.*

Bowles, Robert Clay, A.B., Central College; A.M., Southern Methodist University.

Dissertation: *The Social Philosophy of Charles Fourier and Its Influence in Europe.*

- Bryan, Thomas Conn, A.B., Duke University; A.M., University of North Carolina.  
Dissertation: *Confederate Georgia*.
- Burch, Robert LeRoy, A.B., Iowa State Teachers College; A.M., State University of Iowa.  
Dissertation: *An Evaluation of Analytic Testing in Arithmetic Problem Solving*.
- Carter, Robert LeRoy, B.S., University of Oklahoma.  
Dissertation: *Saturation Effect in the Microwave Spectrum of Ammonia*.
- Cobbs, Walter Herbert, Jr., B.S., Hampden-Sydney College.  
Dissertation: *The Infrared Spectra of Some Organic Compounds*.
- Cofresi, Emilio, B.A., West Virginia University; M.A., University of Illinois.  
Dissertation: *Differential Fertility in Puerto Rico*.
- Cohen, Louis David, B.S., Brooklyn College; A.M., Columbia University.  
Dissertation: *Level of Aspiration Behavior in Certain Psychosomatic Disorders*.
- Ferrell, William Kreiter, B.S., University of Michigan; M.F., Duke University.  
Dissertation: *The Effect of Environmental Conditions on the Survival and Growth of Forest Tree Seedlings Under Field Conditions*.
- Freeman, John Alderman, B.A., M.A., Wake Forest College.  
Dissertation: *Oxygen Consumption, Brain Metabolism and Respiratory Movements of Goldfish during Temperature Acclimatization, with Special Reference to Lowered Temperatures*.
- Gentry, Ivey Clenton, B.S., Wake Forest College; B.S., New York University; A.B., Duke University.  
Dissertation: *On Extending a Homeomorphism Defined over Subsets of 2-Dimensional Orientable Manifolds*.
- Gilbert, Alfred Rachels, B.S., University of Richmond; A.M., Duke University.  
Dissertation: *A Study of the Attack of Elementary Fluorine upon Certain Deactivated Aromatic Rings*.
- Gordon, Morris Aaron, B.S., The College of the City of New York; M.S., University of Chicago.  
Dissertation: *The Physiology of a Blue Stain Mold with Special Reference to Production of Ethyl Acetate*.
- Hackney, Edward June, Sr., B.S., Duke University.  
Dissertation: *The Near Ultraviolet Absorption Spectra of Solutions of Some Monosubstituted Benzene Derivatives*.
- Haley, Leonor Davison, A.B., A.M., Duke University.  
Dissertation: *Etiology of Otomycosis*.
- Hickey, Robert Louis, B.S., East Tennessee Teachers College; A.M., Duke University.  
Dissertation: *John Donne's Legal Knowledge*.
- Holub, Fred Franklin, B.S., Adelbert College of Western Reserve University.  
Dissertation: *A Comparison of Elementary Fluorine with Cobalt Trifluoride as Fluorinating Agents for Aliphatic Ketones*.
- Hopkins, James Franklin, A.B., University of Mississippi; A.M., University of Kentucky.  
Dissertation: *History of the Hemp Industry in Kentucky*.
- Huston, Hollis Wilburn, A.B., Williamette University; B.D., Duke University.  
Dissertation: *A Critical Survey and Evaluation of the Earliest Greek Manuscripts of the New Testament*.

- James, Herman Brooks, B.S., M.S., North Carolina State College.  
Dissertation: *The Effects of the Mechanization of Agriculture in the Northern Tidewater Area of North Carolina.*
- Jarnagin, Milton Preston, Jr., A.B., A.M., University of Georgia.  
Dissertation: *Open Non-Alternating at Most Two-to-One Transformations of Connected Linear Graphs.*
- Kantor, Simon William, B.S., The College of the City of New York.  
Dissertation:  *$\alpha$  and  $\beta$  -Eliminations, Dimerizations, and Rearrangements Involving Carbanions.*
- Kaufman, Elaine Elkins, A.B., Wellesley College.  
Dissertation: *Chemical and Enzymatic Studies on Crystalline Carboxypeptidase.*
- Kaufman, Seymour, B.S., M.S., University of Illinois.  
Dissertation: *Chemical and Enzymatic Studies on Crystalline Chymotrypsin.*
- Keever, Nancy Catherine, A.B., A.M., Duke University.  
Dissertation: *Causes of Succession on Old Fields of the Piedmont, North Carolina.*
- Kittila, Richard Sulo, B. Chem., University of Minnesota; A.M., Duke University.  
Dissertation: *The Synthesis of Phenanthrene Derivatives.*
- Long, John W., Jr., A.B., Dickinson College; A.M., Duke University.  
Dissertation: *The San Juan Island Boundary Controversy; a Phase of 19th Century Anglo-American Relations.*
- Miles, Ernest Percy, Jr., B.S., Birmingham-Southern College; A.M., Duke University.  
Dissertation: *A Minimal Problem for Harmonic Functions in Space.*
- Nau, Walter Theodore, A.B., Guilford College; B.D., Concordia Theological Seminary; A.M., Duke University.  
Dissertation: *Jules Romains: A Critic of French Politics.*
- Pope, Hilda Persons, A.B., Georgia State College for Women; A.M., Duke University.  
Dissertation: *The Effect of Vitamin Analogues on Growth of the Tubercle Bacillus.*
- Quarterman, Elsie, A.B., Georgia State Woman's College; A.M., Duke University.  
Dissertation: *Plant Communities of Cedar Glades in Middle Tennessee.*
- Ralston, Charles William, B.S., Colorado Agricultural and Mechanical College; M.F., Duke University.  
Dissertation: *Soil Factors Related to the Growth of Longleaf Pine in the Atlantic Coastal Plain.*
- Ring, Harold Francis, B.S., Massachusetts Institute of Technology.  
Dissertation: *Determination of the Nuclear Spins and Nuclear Quadrupole Moments of  $B^{10}$  and  $B^{11}$ .*
- Rogers, Hollis Jetton, B.S., Murray State Teachers College; M.S., University of Kentucky.  
Dissertation: *The Genus *Galactia* in the United States.*
- Roseman, Morris, A.B., A.M., University of Maryland.  
Dissertation: *An Analysis of Differences in Closure Behavior Between Normal and Neuropsychiatric Subjects.*

- Rosen, Fred, B.S., University of Wisconsin.  
 Dissertation: *Further Studies on the Metabolism of Nicotinic Acid. I. The Transformation of Tryptophane to Nicotinic Acid. II. The Estimation of 6-Pyridone N<sup>1</sup>-Methylnicotinamide and Its Significance in Nicotinic Acid Metabolism.*
- Rudin, Walter, A.B., A.M., Duke University.  
 Dissertation: *Uniqueness Theory for Laplace Series.*
- Sanderson, James Joseph, B.S., Massachusetts State College; M.S., University of Connecticut.  
 Dissertation: *Formation of  $\beta$ -Diketones from Ketones and Anhydrides and from Ketone Enol Esters by Boron Fluoride.*
- Smith, Alexander Goudy, B.S., Massachusetts Institute of Technology.  
 Dissertation: *Microwave Spectra of Some Cyanogen Halides.*
- Swamer, Frederic Wurl, B.A., Lawrence College; M.A., University of Virginia.  
 Dissertation: *Condensations by Sodium Hydride, Sodium Amide, and Sodium Phenyl. Alkaline Cleavage of Beta-Diketones.*
- Weiss, Martin Joseph, B.A., New York University.  
 Dissertation: *Certain Aspects of the Chemistry of the Pyridyl Ring System. Synthesis of Some Potential Drugs.*
- Wethington, Lewis Elbert, B.A., Wake Forest College; B.D., Duke University.  
 Dissertation: *The Role of Nature and Grace in Fénelon's Conception of Salvation.*

## HONORARY DEGREES

*Doctor of Laws*

Allen, George Venable  
 Baldwin, Alice Mary

Jackson, Robert Houghwout  
 Killian, James Rhyne

*Doctor of Divinity*

Sprinkle, Henry Call, Jr.

The following earned degrees since Commencement in June, 1948  
 DEGREES AWARDED SEPTEMBER 3, 1948

## A.B. DEGREE

Adcock, Lillian Fuller	Frey, John Marshall
Alt, Thomas Henry	Galloway, Ray Mayes
Angelillo, Ralph Clemens	Gatling, William Lawrence, Jr.
Belk, Henderson	Graham, Harvey Polhemus
Betts, Elizabeth Moultrie	Granville, Joseph Ensign
Brock, Jasper W., Jr.	Harwood, Frederick W.
Brooks, Jack Martin	Hill, Ralph Frederick
Browning, James Richardson	Hine, Harold K.
Bryan, William Jennings	Holton, Holland Young
Bullock, Olivia Brame	Hooker, Raymond Cottrell, Jr.
Burch, Walter G., Jr.	Humphreys, Charles Wesley, Jr.
Carter, Shirley Hall, Jr.	Kerr, George Thomas, Jr.
Cato, Benjamin Ralph, Jr.	Lamb, Frank Thompson
Clark, Agnes Lorraine Howard	Lane, Harold Compton
Cleaver, Charles Mason, Jr.	Lee, Frank Hackney
Coggeshall, Berryman Edwards, Jr.	Lipsitz, Lee Stanley
Davis, Ann Minerva	Lyon, William Harrison, Jr.
Dunphy, James McGaughey	McRae, William Vogel, Jr.
DuRant, Richard Stough	McWhorter, John Lloyd
Feder, Richard Yale	MacDonald, Kenneth Charles
Ferris, Fred Irving Eldridge	Mapp, Helen Beatrice
Fletcher, Westwood Hugh, Jr.	Mason, Walter Raymond



Meltzer, Allan Harold	Steel, Charles Earl, Jr.
Meneth, Edward Franklin, Jr.	Stringfield, Virginia Barrow
Midgett, George E.	Styers, Robert Lee
Mieczkowski, John J.	Swain, David Lowry
Miller, Arthur	Thayer, John E., Jr.
Moylan, Edward Newcomb	Thomaides, Theodore George
Newman, Hoyt Creighton	Tiberio, Henry Richard
Noell, John Henley	Tilley, Clarence Ray
O'Mara, Robert James	Vandeventer, Willard Ezra, Jr.
Pettit, Richard Alden	Wade, Elbert Lee
Potanos, John Nicholas	Walker, John C., III
Riley, Phyllis Bowen	Wallis, Donald
Rosenthal, Marvin D.	Wambach, Richard Fidelias
Rostad, Arne	Warren, James Gates
Sinclair, Carter Ashton	Watson, Frances McNeill
Skipworth, George Brook	Wellman, John Wilson
Spaulding, James Eugene	West, Robert Holt
Spillman, John P., Jr.	Woodward, Elizabeth Anne
Spitz, John Victor	Zimmerman, Cullen Caswell
Stars, William Kenneth	

## B.S. DEGREE

Dorman, Roland Frederick	McKelvie, Henry Rennie
McDonald, Neil Jarvis	

*In Nursing Education*

Caddell, Elinor Brooks

*In Civil Engineering*

McBryde, C. O.                      Newell, William Badger

*In Electrical Engineering*

Godfrey, George F.

*In Mechanical Engineering*

Braungart, George	Seeley, Dunham Briggs
Hauser, John A.	Shepetow, Edward Richard
Hipp, Charles Rucker	Urlaub, Matthew William
Jackson, William Morison, Jr.	Viehmeier, George Frederick, Jr.
Knoble, John Leonard, Jr.	

*In Nursing*

Boring, Barbara	Lochas, Maria
Caviness, Edith Ann	Smith, Edith Lucille
Knight, Doris	

## M.ED. DEGREE

Bryant, Samuel Roy	Kendig, Anna Mae
Cardwell, Annie Irene	Norberg, Carl Gustav
Chatfield, Margaret	Payne, Floyd Merle
Craig, Sara Patton	Payne, Hura Harrison
Farthing, Madeline	Price, James W.
Frazee, Lora Miller	Smith, Theodore Carroll, Jr.
Garrett, William Silas	Thompson, Francis Preston
Hill, Dora Beatrice	

## A.M. DEGREE

Abramson, Herbert	Cross, Carlyle
Adams, Anne Shand	Curry, Lois Mae
Caskey, Claire Omar	Donoghue, John Joseph, Jr.
Chew, Jeanne Maurer	Flur, Ina Claire
Clifford, Nancy Easley	Hamilton, Marian Bessent

Kennedy, William Bean  
 McCain, Paul Moffatt  
 Miller, Margaret Harrell  
 Moss, Beverly Carradine  
 Orange, Linwood Elden  
 Pigott, Otho Keith

Price, Eugene Patton  
 Reid, Robert Harding  
 Robinson, Betty Belle  
 Shapiro, Oscar William  
 Stark, Lloyd William  
 Ullman, Arthur

## DEGREES AWARDED AUGUST 27, 1948

## LL.B. DEGREE

Buonocore, Frank Ralph  
 Carden, Julius Garland, Jr.  
 Clark, William Carey  
 Cowhey, Joseph Leonard  
 Ferree, Max Fulton  
 Fischer, Herbert Darcy  
 Flick, Willis Huling  
 Fuller, Manley Kearns  
 Leuthold, Richard Albert  
 McCown, Wallace Hardin  
 Marsquise, Richard T.  
 Marshall, Walter Ledden

May, Annon Washington  
 Messick, James Bell  
 Molesko, John  
 Mosser, Edward Donald  
 Raymond, Aubrey Leonard  
 Sanders, Jerry Cureton  
 Stone, Jerry Broadwell  
 Tumen, Harry Bernard  
 Vick, Josiah Pitts  
 Wilson, Henry Hall, Jr.  
 Young, Malcom Dow

## LL.M. DEGREE

Snyder, William Lafayette

Wilson, Edgar Hunter

## HONORS IN GRADUATING CLASSES

*Summa Cum Laude*

SEPTEMBER 3, 1948

Graham, Harvey Polhemus

JUNE 6, 1949

Bradley, Emmet Hughes  
 Patterson, Daniel Watkins  
 Query, Joan  
 Van Fossen, Richard Waight

Aldridge, Clyde Lee  
 Stottlemeyer, Paul Clinton  
 Doggett, Lewis Carpenter

*Magna Cum Laude*

SEPTEMBER 3, 1948

Coggeshall, Berryman Edwards, Jr.    Mason, Walter Raymond

JUNE 6, 1949

Stickel, Delford LeFew  
 Vick, Lois Hutchinson  
 McDonald, Elizabeth Lois  
 Duncan, Martha Moore  
 Sorrow, David Shotwell  
 Hanks, Nancy  
 Baily, Alfred Ewing  
 Hurley, Betsy John  
 Patton, Alice Lucinda

Rich, Robert Ellett  
 Smith, Anne  
 Miner, Richard Warren  
 Penfield, Margaret Anne  
 Merritt, William Duke  
 Brown, Lloyd Lee  
 Vosburgh, Elizabeth  
 Austin, James Jackson

## HONORS IN DEPARTMENTS AND SCHOOLS

## SCHOOL OF LAW

*Order of the Coif*

Allen, Louis Carr, Jr.  
 Fischer, Herbert Darcy  
 Gantt, Samuel Fox

Griffith, Brantley B.  
 Page, Allen P., Jr.

## Graduated "With Distinction"

Allen, Louis Carr, Jr.	Johnson, Benjamin Franklin, Jr.
Fischer, Harbert Darcy	Lemmon, William James
Gantt, Samuel Fox	North, John Edward
Griffith, Brantley B.	Page, Allen P., Jr.
Herbert, Bueford Gilbert	

*Willis Smith Prize*—Page, Allen P., Jr.

SCHOOL OF MEDICINE—Election to Alpha Omega Alpha, Honorary Medical Fraternity

Coker, Carolyn	Lange, Ramon Linus
Bishopric, George Andrew	Morgan, James LeRoy
Crutcher, James Carroll	Page, Ernest Benjamin, Jr.
Davis, Daniel William, Jr.	Roof, Betty Sams
Flowe, Benjamin Hugh	Shipp, James Herbert
Hallet, Robert Lawrence	Smith, Rosalind Gower
Kibler, Robert Franklin	Wilson, John Winkle, Jr.

TRINITY COLLEGE AND COLLEGE OF ENGINEERING, 1948-1949

Students listed according to averages

*Freshman Honors*

Rusinow, Dennison Ivan	Grahl, Bobby Howard
Howard, J. Woodford, Jr.	Thomas, Richard Frank, Jr.
Noel, William Lee	Leonard, Henry Siggins, Jr.
Bannister, Thomas Turpin	Folk, Chris Evans
Price, Robert McCollum, Jr.	Baker, Gordon
Pollock, James Harold	Pearson, Alden Bryan, Jr.
Reeves, Ernest Gene	Dannenberg, Richard Bruce
Simon, Harold	Whanger, Alan Duane
Garlington, James Conway	Gorham, Alden Burr, Jr.

*Sophomore Honors*

Baldwin, William Lee	Hudson, Isham Barney
Roth, Arnold Israel	Wanzer, Sidney Hovey
Brooks, Sidney Barclay	Stringer, Arthur John, Jr.
Morgan, Thomas Edward, Jr.	Woodfield, Roland Lawton
Allen, Joe Land	Ahrenholz, Leslie Theodore
Noell, Algernon Stanford, Jr.	Radner, Sanford Richard
Noggle, Burl Lee	Renfrow, Robert Perry
Simmons, Bowen Eugene	Blackburn, John Oliver
Lee, John Marshall, Jr.	Neal, Charles Bodine, III
Withers, Welty Kenney	Dellinger, David Carol

*Junior Honors*

Barnes, Robert Lloyd	Rice, Milton Bacon
Lane, Rembrandt Peale, Jr.	McGerity, Joseph Loehr
Brown, Rollin Lombard	Tager, Milton Lee
Brandt, LeRoy Milton	Wilkerson, Albert Ernest, Jr.
Matlock, Jack Faust	Schick, Philip Martin
Brown, Clarence Fleetwood	DePass, Skottowe William
Hiller, Karl Heinz	Hautamaki, Edward William
Best, Richard Kenneth	Tribble, Willie Mack, Jr.
Chesson, Eugene, Jr.	Loser, Theodore Charles, Jr.
Garceau, Arthur Joseph	Gleason, William Lounsbury
Martinelli, William Joseph	Barnes, Don Bishop
Meier, Charles Donald	Coffee, Robert Lee
Traub, Henry Willis	Council, Robert Enloe
Ramsey, Robert Wayne	Johnson, Charles Buchanan
Rudisill, John Arvie, Jr.	Driver, Tom Faw
Wilcox, Charles Hamilton	Wallingford, Thomas Ralph

## THE WOMAN'S COLLEGE, 1948-1949

*Freshman Honors*

Purviance, Patricia Corrine  
West, Emily  
Bowers, Mary Blair

Bartlett, Elizabeth Ann  
Fairley, Nancy Elizabeth  
McClure, Marie Price

*Sophomore Honors*

Quillian, Harriet Sandeford  
Hall, Jane Madeline  
Wiencke, Marian Louise  
Morse, Carolyn Beeson  
Trimmer, Mary Elizabeth  
Murdock, Evelyn Janet  
Montgomery, Shasta Novelline

Hurst, Elizabeth June  
Martin, Norma Louise  
Park, Eileen Ora  
Prosser, Sally Madeline  
Boone, Emily Milton  
Crowell, Doris Lee

*Junior Honors*

Smith, Betty Gene  
Alyea, Jane Dinsmore  
Brown, Elizabeth Jean  
Jansen, Hazel  
Frazee, Mildred Evelyn  
Taylor, Nancie Jane  
Lovejoy, Virginia  
Hickman, Florence Bunting  
White-Spunner, Barbara Letitia

Harrison, Elizabeth Kutz  
McElroy, Celia Anne  
Steiner, Golde Joan  
Foscue, Elizabeth Jean  
Malkasion, Sally Frances  
Saunders, Jean Marilyn  
Maxfield, Mary Ann  
Reid, Ann Townsend



## ROLL OF STUDENTS

### TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

Fall Semester, September-January, 1948

("E" denotes those enrolled in the College of Engineering. Number shows semesters completed.)

Abbott, William Franklin, Jr. 3  
 Abe, Jack M. 4  
 Abernathy, Atwell Ray 0  
 Adam, Raymond Carl 6  
 Adams, Charles Alexander, Jr. 0  
 Adams, Morgan R. 2  
 Adams, Nelson Falls 2  
 Adams, Thornton Dixon 6  
 Adamson, Claude Max 4 E  
 Adcock, Louis Henry 2  
 Adkins, Eli Richard 2  
 Ahern, Edward F., Jr. 2  
 Ahrenholz, Leslie T. 2  
 Albrecht, Ewart Alphonso 0  
 Alexander, Charles Thomas 4  
 Alexander, Uhlman Seymour 0  
 Aldridge, Clyde L. 6  
 Alger, John 6  
 Allen, Frank Conrad 1  
 Allen, I. Dayton 0  
 Allen, James Edward 2  
 Allen, Joe Land 2  
 Allen, Louis E. 3  
 Allen, Philemon Macon 1  
 Allen, Richard C. 2  
 Allen, Robert H. 4  
 Allison, Raymond Dean 0  
 Allred, Roger Howard 4  
 Almquist, Henry G. 7  
 Ames, Robert Shelton 2  
 Ancrum, Thomas D. 4  
 Anderson, Dean Floyd 4 E  
 Anderson, Jack F. 7  
 Anderson, Robert 2  
 Anderson, Robert Eugene 0  
 Anderson, William Berry 2  
 Andrews, Frederick Clifford 2 E  
 Appen, Raymond C. 7  
 Appleby, Samuel R. 7  
 Archambault, Norman 1  
 Armour, William John 2  
 Armstrong, Pete Robertson 2  
 Ashby, William C. 9  
 Ashe, James Elisha, Jr. 0  
 Ashe, Vance Baumgardner 2  
 Ashley, Larry Lee 0  
 Atwood, John W. 6  
 Aushon, Douglas H. 7

Salem, Mass.  
 Dayton, Ohio  
 Hiddenite, N. C.  
 Irvington, N. J.  
 Pleasantville, N. Y.  
 Louisville, Ky.  
 Charlotte, N. C.  
 Carthage, N. C.  
 Goodwater, Ala.  
 Durham, N. C.  
 Pony, Mont.  
 Worcester, Mass.  
 Middletown, N. Y.  
 Portsmouth, Va.  
 Indianapolis, Ind.  
 Charlotte, N. C.  
 Leland, Miss.  
 Huntington, N. Y.  
 Washington, D. C.  
 McKeesport, Pa.  
 Barrington, R. I.  
 Burlington, N. C.  
 Greensboro, N. C.  
 Washington, D. C.  
 Wichita, Kan.  
 Baldwinsville, N. Y.  
 Washington, D. C.  
 Durham, N. C.  
 Brooklyn, N. Y.  
 Beckley, W. Va.  
 Camden, S. C.  
 Cottage Grove, Ore.  
 North Wilkesboro, N. C.  
 Lynn, Mass.  
 Wheeling, W. Va.  
 New Castle, Pa.  
 Greenwich, Conn.  
 Columbia, Ky.  
 Arcadia, Fla.  
 West Warwick, R. I.  
 Dayton, Ohio  
 High Point, N. C.  
 Mt. Airy, N. C.  
 Asheville, N. C.  
 Asheville, N. C.  
 Greenville, S. C.  
 Winsted, Conn.  
 Durham, N. C.

- Austin, James Jackson 6  
 Austin, Tollie Edward, Jr. Spec.  
 Autry, Elwin Benjamin 2 E  
 Avera, Joseph Conrad 2  
 Aycock, Ezra Kenneth 5  
 Aycock, William Glenn 6  
 Ayers, John C. 2  
 Ayers, Milton Edward 4  
 Ayerst, Robert I. 6  
 Allin, James Lander, Jr. 4  
 Babykin, Anatole Gregory 6 E  
 Baehr, Bruce Findlay 0  
 Bafford, Edward Donald 0  
 Bailey, Edgar Lee 7  
 Bailey, Raymond B. 2 E  
 Baily, Alfred E. 6 E  
 Bain, Willis Robinson 2  
 Bain, David Edward 2  
 Baird, Bruce K 2  
 Baker, F. Richard 4  
 Baker, Gordon 0  
 Baker, Harrell Woodrow 1  
 Baldwin, Jackson Lee 1  
 Baldwin, William Lee 1  
 Ball, Walter Herbert 0  
 Ballard, William Ed 1  
 Ballou, Charles Floyd, III 6  
 Bangle, Robert Edward 0  
 Banks, Henry Howard 2 E  
 Banks, John Joseph 0  
 Banks, Sam A. 5  
 Bannister, Thomas Turpin 0  
 Banthin, Clifford Richard 0  
 Baptiste, Ronald Philip 3  
 Barbee, Robert Edward, Jr. 5  
 Barber, Harold R. 4  
 Barber, John W. 6  
 Barden, Charles S. 4  
 Barfield, Victor Warren 0  
 Barker, Charles Warwick 6  
 Barker, Robert Marvin 0  
 Barkin, Bernard L. 7  
 Barnard, Bruce Donald 4  
 Barnard, George William 6  
 Barnes, Albert Ernest 6 E  
 Barnes, David A. 8  
 Barnes, Donald Bishop 4  
 Barnes, Robert Lloyd 4  
 Barnes, Sidney Edwin 4  
 Barnes, Wallace 4  
 Barnett, Ewing Smith 7  
 Baroff, Philip 2  
 Barone, Nathaniel L., Jr. 6  
 Barranco, Frank Thomas 0  
 Barrett, Alfred James, Jr. 0  
 Barry, Earnest Harry 0  
 Bartel, Frank O. 7  
 Bartlett, William Herman 6 E  
 Barwick, Howard Eugene 0  
 Kingsport, Tenn.  
 Portsmouth, Va.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Pinewood, S. C.  
 Fremont, N. C.  
 Tabor City, N. C.  
 Bloomfield, N. J.  
 Connellsville, Pa.  
 Lakeland, Fla.  
 Long Island City, N. Y.  
 McKeesport, Pa.  
 Baltimore, Md.  
 Lexington, N. C.  
 Bristol, Conn.  
 Creedmoor, N. C.  
 Petersburg, Va.  
 Williamsville, N. Y.  
 Fredonia, N. Y.  
 Hendersonville, N. C.  
 Ventnor City, N. J.  
 Durham, N. C.  
 Wilmington, N. C.  
 Durham, N. C.  
 Wilson, N. C.  
 White Sulphur Springs,  
 W. Va.  
 West Brookfield, Mass.  
 Concord, N. C.  
 Charlotte, N. C.  
 Greenwich, Conn.  
 Lakeland, Fla.  
 Urbana, Ill.  
 Bridgeport, Conn.  
 Shanghai, China  
 New Orleans, La.  
 Gulfport, Miss.  
 Anderson, Ind.  
 Asheville, N. C.  
 LaGrange, N. C.  
 Lumberton, N. C.  
 Lumberton, N. C.  
 New York City, N. Y.  
 Cramerton, N. C.  
 Cramerton, N. C.  
 Astoria, N. Y.  
 Rochester, Minn.  
 Wilson, N. C.  
 Royersford, Pa.  
 Durham, N. C.  
 Stewartstown, Pa.  
 Albany, Ga.  
 Bridgeport, Conn.  
 Jamestown, N. Y.  
 Baltimore, Md.  
 Washington, D. C.  
 Baltimore, Md.  
 Spartanburg, S. C.  
 Charlotte, N. C.  
 Miami, Fla.

- Batchelor, William M. 3  
 Bates, Robert Kenneth 0  
 Batten, Emmett L. 2 E  
 Batten, John Edward, III 3  
 Bauer, Eugene Joseph 5  
 Baugess, William B. 4  
 Baughman, Charles Ben 6  
 Baumberger, Charles McClay 2  
 Baynes, Bascom Thornton, Jr. 7 E  
 Baynes, James R. 6  
 Baynes, Walter Wright, Jr. 6  
 Beal, Jesse Capps 0  
 Beam, Joe C. 6  
 Bean, William R. 4  
 Bear, Larry Allen 6  
 Beaumont, Jacques D. 4  
 Becher, George David, Jr. 0  
 Beck, Bobby Gene 0  
 Beck, Charles Edward 0  
 Beck, Wade H., Jr. 2  
 Beck, William Harvey 3  
 Becker, John William 4  
 Bell, Alvin York 0  
 Bell, Carl Wendell, Jr. 1  
 Bell, Robert F. 6  
 Bell, William Braswell 6  
 Bell, William Goebel 0  
 Bene, Kalman J. 6  
 Benfer, Norman A. 1  
 Bennett, Calvin F. 1  
 Bennett, David Gerrald 4  
 Bensinger, Robert Guy 2  
 Bergeron, William Lawrence 1  
 Bergstrom, Jack W. 4  
 Berlin, Melvin 4  
 Berman, Elliott 2  
 Berne, Edgar 6  
 Berry, Maxwell Kennedy 0  
 Best, Edward Gene 6  
 Best, John Hardin 2  
 Best, Lee James 0  
 Best, Richard Kenneth 4 E  
 Bianchi, Richard Eugene 4  
 Bickel, Robert Arthur 0  
 Biddison, Mark 2  
 Biggers, William J. 6  
 Biggs, Joseph Lewis 4 E  
 Billings, Jake T. 6  
 Binda, George Edward 1  
 Bingaman, John W. 5  
 Bingham, Alvin L., Jr. 6 E  
 Bingman, Kenneth Ronald 2  
 Bird, Jack Harold 5  
 Bitker, Alexander Joseph 4  
 Bitker, Edwin Ward 0  
 Bizzell, Henry A. 7  
 Blackard, Embree Hoss 7  
 Blackburn, John O. 2  
 Blackmon, Benjamin Boinest 6  
 Blackmon, Stephen Kern 3  
 Greenville, N. C.  
 Mount Vernon, N. Y.  
 Durham, N. C.  
 Welch, W. Va.  
 Chicago, Ill.  
 Salem, Va.  
 Elizabethton, Tenn.  
 Charleston, W. Va.  
 Durham, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Nashville,, N. C.  
 Beaufort, N. C.  
 Marshfield, Mass.  
 Wakefield, Mass.  
 Wellsville, Ohio  
 Longmeadow, Mass.  
 Durham, N. C.  
 Harrisburg, Pa.  
 Durham, N. C.  
 Fayetteville, N. C.  
 Marietta, Ohio  
 Greer, S. C.  
 Raleigh, N. C.  
 Lakewood, Ohio  
 Atlanta, Ga.  
 Norwood, Ohio  
 Durham, N. C.  
 Maplewood, N. J.  
 Albemarle, N. C.  
 Charlotte, N. C.  
 New Rochelle, N. Y.  
 Greenwich, Conn.  
 Charleston, W. Va.  
 Savannah, Ga.  
 Houlton, Maine  
 Woodhaven, N. Y.  
 Morganfield, Ky.  
 Goldsboro, N. C.  
 Little Rock, Ark.  
 Dunn, N. C.  
 Quincy, Ill.  
 Guatemala, Central America  
 Reading, Pa.  
 New York City, N. Y.  
 Dalton, Ga.  
 Durham, N. C.  
 Durham, N. C.  
 Medford, Mass.  
 Reading, Pa.  
 Albany, N. Y.  
 Bridgeport, W. Va.  
 Durham, N. C.  
 Los Angeles, Calif.  
 West Orange, N. J.  
 Newton Grove, N. C.  
 Gastonia, N. C.  
 Miami, Fla.  
 Orangeburg, S. C.  
 Durham, N. C.

- Blackwell, LeRoy Erlinson, Jr. 2 E  
 Blair, Richard Mitchell 2  
 Blalock, William Shaw 0  
 Blanchard, Ralph William 1  
 Brand, Bruce Francis 2  
 Blank, Arthur E. 2  
 Blankenship, John Swann, Jr. 4 E  
 Blaylock, Dan W. 2  
 Bliss, George Y. 3  
 Bloise, Jose Armando 2  
 Blome, William Arnold 7  
 Bloom, Howard 0  
 Boardman, William Covert Spec.  
 Bobbitt, Joseph Irvin 2  
 Bodenhamer, David Lee 0  
 Bodfish, Ralph Elwin 7  
 Boehling, William Anthony 5  
 Boehm, James Vernando, Jr. 0  
 Boger, John R. 4  
 Boggs, John Campbell, Jr. 7  
 Bolyard, Paul Kenneth 6 E  
 Bomar, Thomas Carlton Spec.  
 Boone, Charles Chaffin 0  
 Booth, Samuel Maslon 7  
 Borden, Windsor John 5  
 Borst, Robert M. 2 E  
 Borstell, Hans J. 4  
 Bortner, John G. 6  
 Boshamer, Clarence W. 4  
 Boshinski, Edwin Ernest 2  
 Bossart, James A. 6  
 Bourland, William Lee 2  
 Bovaird, George C. 2  
 Bowers, Gilmore 2 E  
 Bowles, Robert W. 6 E  
 Bowling, Lewis L., Jr. 4  
 Bowling, Robert F. 4  
 Bowman, Lawrence Colin 2  
 Box, Klay K. K. 4  
 Boyce, Robert Richard R. 2  
 Boyd, Frederick Daniel 2  
 Boyles, James M. 3  
 Boynton, John Gorham 4  
 Boynton, John Howe 0  
 Brackney, William A. 3  
 Bradbury, William Chase 2 E  
 Bradford, Harold Keith 0  
 Bradley, Emmett H. 6 E  
 Brady, James A., Jr. 8  
 Bragg, Sidney H. 6 E  
 Branch, Bobby C. 3  
 Brandt, Leroy M. 4  
 Branham, John T., Jr. 4  
 Branham, William Dennis 7  
 Branson, William Henry 1  
 Brawley, James Otto 4  
 Bray, Henry Woodall, Jr. 3  
 Brazis, Michael Douglas 2  
 Brewer, Charles Lindsey 4  
 Brewer, James L. 7  
 Miami, Fla.  
 Warren, Pa.  
 Lexington, N. C.  
 Paw Creek, N. C.  
 Miami, Fla.  
 Newport, R. I.  
 Rock Hill, S. C.  
 Lakewood, Ohio  
 Roslyn, N. Y.  
 Rio Piedras, Puerto Rico  
 Lincoln Park, N. J.  
 Mt. Vernon, N. Y.  
 Fair Haven, N. J.  
 Wilmington, N. C.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Richmond, Va.  
 Zelienople, Pa.  
 Concord, N. C.  
 Front Royal, Va.  
 Durham, N. C.  
 Georgetown, S. C.  
 Boone, N. C.  
 Statham, Ga.  
 Oswego, N. Y.  
 Narberth, Pa.  
 Babylon, N. Y.  
 York, Pa.  
 Gastonia, N. C.  
 Shamokin, Pa.  
 Cuyahoga Falls, Ohio  
 Winter Garden, Fla.  
 Bradford, Pa.  
 Winston-Salem, N. C.  
 Garden City, N. Y.  
 Durham, N. C.  
 Mt. Vernon, N. Y.  
 Jamaica Estates, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 Salisbury, N. C.  
 Orlando, Fla.  
 Woodbridge, N. J.  
 Plandome, N. Y.  
 Toledo, Ohio  
 Hopedale, Mass.  
 Minneapolis, Minn.  
 Hampton, Va.  
 Statesville, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Charleston, S. C.  
 Orlando, Fla.  
 Rocky Mount, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Ben Hill, Ga.  
 South Boston, Mass.  
 Durham, N. C.  
 Siler City, N. C.



Brice, Charles Carroll	0	Annapolis, Md.
Brice, George W.	7	Charlotte, N. C.
Brickman, Thayer Ellis	0	Mattapan, Mass.
Bridewell, Ross Owens	6	Durham, N. C.
Bridge, John Homer	4	St. Petersburg, Fla.
Bridgers, Charles Adams	0	Durham, N. C.
Bridges, Edwin Burke	0	Thomasville, N. C.
Bridges, Warren Donald	0	Ravenel, S. C.
Briggs, James Ethelbert	2	Raleigh, N. C.
Briggs, Marcellus Arnold, Jr.	0	Durham, N. C.
Brill, William	0	Locust Hill, Va.
Brinkley, John Dallas	7	Valdese, N. C.
Brinson, Walter Jackson	2	Buffalo, N. Y.
Britt, Bill C.	2	Fairmont, N. C.
Brock, Aaron J.	2	Raleigh, N. C.
Broderson, Robert Maurice	3	Durham, N. C.
Brokenshire, Melvyn Royal	0	Macon, Ga.
Bronson, Richard A.	6	Miami, Fla.
Brooks, Eugene Clyde, III	0	Durham, N. C.
Brooks, George Harris, III	0	Apex, N. C.
Brooks, James Walter, Jr.	6 E	Durham, N. C.
Brooks, Sidney Barclay	2	Wilson, N. C.
Brooks, Val Carlton	0	Durham, N. C.
Browder, Leslie Ephrium	0	Winston-Salem, N. C.
Brown, Bernard Owen	0	Grand Forks, N. D.
Brown, Clarence F.	4	Anderson, S. C.
Brown, Edward B.	4	Scranton, Pa.
Brown, James Madison	3	Miami, Fla.
Brown, Lloyd Lee	6 E	Erwin, Tenn.
Brown, Ralph Josiah, Jr.	1	Havertown, Pa.
Brown, Rollin L.	4	Woodbridge, Va.
Brown, Samuel Hoyt	0	Tallapoosa, Ga.
Brown, Walter Louis	0	Clarkton, N. C.
Brown, William Eugene	0	Winston-Salem, N. C.
Browne, Thomas B.	2 E	Cherryville, N. C.
Bruce, Logan Lithgow	4	San Antonio, Texas
Brumit, Horace Clarence	4	Elizabethton, Tenn.
Brundage, Blair George	6	New York City, N. Y.
Brunson, Ronald A.	0	Durham, N. C.
Bryan, Dillard B.	6	Durham, N. C.
Bryan, William Arnold, Jr.	6 E	Durham, N. C.
Bryant, Clyde Vernon	5	Raleigh, N. C.
Bryant, Kendred Luter, Jr.	0	Roanoke Rapids, N. C.
Buchanan, Charles Edward	6	Hamlet, N. C.
Buchanan, John Creighton	2	Winnsboro, S. C.
Buchanan, Robert Roy	2	Bluefield, W. Va.
Buchanan, William Edward	6	Charleston, W. Va.
Bugg, Richard Alex, Jr.	6 E	Virginia Beach, Va.
Buie, James C.	2	Durham, N. C.
Bukowitz, Marvin D.	2 E	Baltimore, Md.
Bullock, Henry Lehman	2	Durham, N. C.
Bump, Stanley O.	2 E	Evansville, Ind.
Burdick, Thomas Cooper	4	Englewood, N. J.
Burdick, Wallace Thurston	4	Englewood, N. J.
Burk, Robert Stuart	2	Washington, D. C.
Burleson, Robert McClay	3	Johnson City, Tenn.
Burnett, Colbert H.	6	Durham, N. C.
Burnett, John Carver	0	St. Petersburg, Fla.
Burns, Franklin Kent	4	Winston-Salem, N. C.
Burrell, Eugene John, Jr.	4	Eustis, Fla.

- Buschman, Richard A. 0  
 Bush, Chandler M. 2 E  
 Bush, Robert Kenneth 2  
 Bushnell, George Dewey 2  
 Butler, Clifford Leroy, Jr. 0  
 Butler, William Warren 0  
 Butner, Oliver Leo, Jr. 4  
 Butrym, Robert Earl 0  
 Butt, S. Page 2 E  
 Buttner, James Hilton 0  
 Byerly, Charles Tate 4  
 Byers, Bill Magness 0  
 Bynum, William E. 5  
 Byrd, Jack L. 4  
 Byrd, James S. 4  
 Byrd, Robert Curtis 4  
 Cacak, Stanley John 6  
 Caffey, John William, Jr. 5  
 Cagle, Clarence B. 4  
 Cahill, John Edward, Jr. 2  
 Cahow, Clark R. 3  
 Calaway, Bill E. 2  
 Caldwell, Chester Abbott 4  
 Caldwell, Daniel H. 2  
 Caldwell, Harper Donald, Jr. 0  
 Calhoun, Dallas 4 E  
 Calhoun, Joel D. 4  
 Callahan, Charles E. 4 E  
 Callahan, Daniel J. 6  
 Callaway, Paul Frederick 0  
 Calloway, Vern Daniel, Jr. 1  
 Campbell, Clifford William 0  
 Campbell, Craig Carol 7  
 Campbell, Donald Adams 6 E  
 Campbell, Everett C. 6 E  
 Campbell, James Emerson, Jr. 0  
 Campbell, Lucian Paul, Jr. 4  
 Campbell, Raymond Harry 2  
 Campbell, Robert Duncan 1  
 Cannon, Kenneth F., Jr. 2 E  
 Cannon, Philip Holland 2  
 Capsalis, Aggie M. 4  
 Capwell, Donald Bruce 4 E  
 Carloss, Frank I. 2  
 Carpenter, Grady 4  
 Carpenter, Harry Everett, Jr. 2 E  
 Carpenter, Robert Rhyne 0  
 Carr, Frederick LaMont 4  
 Carr, James Giles 11  
 Carr, Robert Woodworth 7  
 Carr, Thomas Lawrence 7  
 Carrera, Carl Henry 8  
 Carriker, Wallace Leo 0  
 Carris, William Bentley 4  
 Carroll, Harold W. 4  
 Carroll, James William, Jr. 4 E  
 Carroll, John Norman 0  
 Carson, John S. 8  
 Carson, Joseph Edwin, III 6 E  
 Carson, Richard Taylor 3  
 New Alexandria, Va.  
 Cleveland, Ohio  
 Merchantville, N. J.  
 Winnetka, Ill.  
 Wilmette, Ill.  
 Atlanta, Ga.  
 Durham, N. C.  
 McKeesport, Pa.  
 Pleasantville, N. Y.  
 Baltimore, Md.  
 Durham, N. C.  
 Charlotte, N. C.  
 Sumter, S. C.  
 Marion, N. C.  
 Marion, N. C.  
 Ft. Lauderdale, Fla.  
 Fairbury, Neb.  
 Greensboro, N. C.  
 Green's Creek, N. C.  
 Litchfield, Conn.  
 Long Beach, Calif.  
 Winston-Salem, N. C.  
 Blytheville, Ark.  
 Blytheville, Ark.  
 Durham, N. C.  
 St. Petersburg, Fla.  
 St. Petersburg, Fla.  
 Windsor, Conn.  
 Concord, Mass.  
 Belleville, Ill.  
 Balboa Heights, Canal Zone  
 Beachwood, N. J.  
 University, N. C.  
 Chapel Hill, N. C.  
 Durham, N. C.  
 Reading, Pa.  
 Wilmington, N. C.  
 Maiverne, N. Y.  
 Pelham Manor, N. Y.  
 Washington, D. C.  
 Bridgeville, Dela.  
 Durham, N. C.  
 Jamaica, N. Y.  
 Salem, Ohio  
 Concord, N. C.  
 Newton, N. C.  
 Cherryville, N. C.  
 Richmond, Va.  
 St. Petersburg, Fla.  
 Tulsa, Okla.  
 Bangor, Pa.  
 Tampa, Fla.  
 St. Louis, Miss.  
 Holden, W. Va.  
 Hillsboro, N. C.  
 Charlotte, N. C.  
 Malden, Mass.  
 New York, N. Y.  
 Danville, Va.  
 McKees Rocks, Pa.

Carswell, A. Paul, Jr. 2	Durham, N. C.
Carter, Donald Sweetser 4	Towson, Md.
Carter, Luther Jordan 3	Charlotte, N. C.
Carter, Needham B. 5	Rocky Mount, N. C.
Carter, Ruben Wesley 0	Clinton, N. C.
Carver, Marvin J., Jr. 1	Rougemont, N. C.
Cash, Leon Hartsell 6	Winston-Salem, N. C.
Caskey, Claude O'Dell Spec.	Martinsburg, W. Va.
Cates, Walter Elmer 2 E	Durham, N. C.
Cathcart, Edward R. 6	Anderson, S. C.
Cathey, John Beverly 0	Alexandria, Va.
Cathey, Joseph B., Jr. 6	Spartanburg, S. C.
Cato, Paul James 4	Charlottesville, N. C.
Cavaliere, Benjamin Albert 0	Morristown, Pa.
Cavanaugh, Edward Michael 1	Waterbury, Conn.
Celley, Albert Francis 2	Valhalla, N. Y.
Chamberlain, B. Rhett, Jr. 2 E	Charlotte, N. C.
Chamberlin, Frank Harry 2	West Orange, N. J.
Chambers, Jack Horne 2	Clothier, W. Va.
Chambers, Robert Tillman 3	Milton, N. C.
Chambers, Thomas Hilary, Jr. 4	Winston-Salem, N. C.
Chambliss, H. Darden, Jr. 0	Oak Ridge, Tenn.
Chang, Ambrosio 0	Guatemala, Central America
Chapman, Frank A. 4 E	Glens Falls, N. Y.
Chapman, Loren Max 6	Durham, N. C.
Chapman, Robert W. 4 E	Charlotte, N. C.
Chappell, Clinton Worth 0	Durham, N. C.
Chappell, William Henry 2 E	Durham, N. C.
Cheek, Ernest Calvin 6	New York, N. Y.
Cheek, Horace Leighton 0	Durham, N. C.
Cheek, James B. 5	Durham, N. C.
Cheek, Leon Clarence, Jr. 6 E	Chapel Hill, N. C.
Cheek, Leon Theodore, II 2	Miami, Fla.
Chesson, Eugene, Jr. 4 E	Durham, N. C.
Chick, Ernest Watson 6	Durham, N. C.
Chidester, Robert Paul 7	Ashtabula, Ohio
Chillingworth, Mehrtens Gould 7	Honolulu, Hawaii
Chittum, John Raymond 5	Wooster, Ohio
Chrisfield, N. E. 2 E	Gilbertsville, N. Y.
Christakos, Arthur Chris 2	Batesburg, S. C.
Christman, Fred Lee 2	Manhasset, N. Y.
Christner, Howard H. 4	Somerset, Pa.
Christy, Jack S. 4 E	Lake Village, Ark.
Christy, John H. 2	Andrews, N. C.
Critton, Ernest Fairfax, Jr. 4	Birmingham, Mich.
Critton, John Evans 0	Birmingham, Mich.
Clardy, Will Jouette, Jr. 4	Pittsburgh, Pa.
Clark, Banks Worth 4 E	Durham, N. C.
Clark, Hamilton Y. 6 E	Lewiston, N. Y.
Clark, John Schaumann 4 E	Wadesboro, N. C.
Clark, Jonathan Yates 0	Leesburg, Fla.
Clark, LaFrederick Russell 2	Oxford, N. C.
Clark, Robert Shields 6 E	Kent, Ohio
Clark, Russell Claude 2	Billings, Mont.
Clark, Seymour Garland, Jr. 2	Brooklyn, N. Y.
Clark, William Henry 4	Scarsdale, N. Y.
Clark, Donnelly Royce 4	Asheville, N. C.
Clary, Guy Willis 6	Gaffney, S. C.
Cloughton, Edward Napoleon, Jr. 3	Miami, Fla.
Clausen, Jay Donald 2	Baltimore, Md.

- Clayton, Robert L. 4  
 Clement, William Norman, Jr. 0  
 Clendenin, William F. 6  
 Clifton, Wade V., Jr. 2  
 Clifton, Yerger Hunt 0  
 Cline, Albert Purcell, Jr. 4  
 Clowar, John William 2  
 Coady, James Malcolm 6  
 Cobetto, Jack Bernard 4  
 Coble, James Herbert 0  
 Coble, Russell Cooke, Jr. 5  
 Cochran, Norman Booker 0  
 Coddington, Steele Crissman 4  
 Coe, Donald Gray 2  
 Coffee, James Madison 4  
 Coffee, Robert Lee 3  
 Coggin, John R. 2  
 Cole, Benjamin T. 5  
 Coleman, William Patrick 7  
 Colenda, Herbert F. 2 E  
 Collins, Howard William 0  
 Collins, Ira Taylor, Jr. 4  
 Collins, Jesse Benjamin 6  
 Collins, William Cornelius 6  
 Colvin, John Tower 2  
 Combs, Charles Morrison 0  
 Combs, Richard L. 2 E  
 Conaway, Jack Russell 2  
 Condon, Irvin M. 0  
 Conner, John Cecil 2  
 Connor, Robert Earl 4 E  
 Constantine, Tom Moore 4  
 Conti, Gino Danti 0  
 Conway, William Frederick 4  
 Cook, Clark Curtis 6  
 Cook, Harold J., Jr. 4 E  
 Cook, Robert Darrow 2  
 Cook, Roger G. 6 E  
 Cooke, Clifton Noyes 0  
 Cooke, Dennis Hargrove, Jr. 2  
 Cooke, William F., Jr. 2 E  
 Cookerly, Thomas Bourne 4  
 Cooper, Albert B. 6 E  
 Cooper, Charles Staples 4  
 Cooper, Joseph S. 4  
 Cooper, Thomas Walker 0  
 Cope, William Warren 4  
 Copeland, Isaac Mathias, Jr. 4  
 Copenhaver, Edward Holmes, III 4  
 Copley, Harry Kerman 3  
 Corbett, Howard Roger, Jr. 2 E  
 Cordry, Durrel F. 5  
 Corley, Charles Birette, Jr. 7 E  
 Corrigan, Eugene F. 2  
 Corry, John Drake 0  
 Costis, Gus Tom 2  
 Cote, Daniel Narcisse 0  
 Cottman, Brooke Powell 0  
 Couleur, Edwin M. 2 E  
 Council, Robert E. 2  
 Oak Grove, La.  
 Raleigh, N. C.  
 Statesville, N. C.  
 Durham, N. C.  
 Jackson, Miss.  
 Canton, N. C.  
 Audubon, N. J.  
 Monument Beach, Mass.  
 Herminie, Pa.  
 Concord, N. C.  
 Concord, N. C.  
 Valdosta, Ga.  
 Niagara Falls, N. Y.  
 Chevy Chase, Md.  
 Jacksonville, Fla.  
 Jacksonville, Fla.  
 Durham, N. C.  
 Durham, N. C.  
 Lynchburg, Va.  
 Morehead City, N. C.  
 Newark, Ohio  
 Kingsport, Tenn.  
 Hazard, Ky.  
 Providence, R. I.  
 Washington, D. C.  
 Shaker Heights, Ohio  
 Shaker Heights, Ohio  
 Parkersburg, W. Va.  
 Wildwood, N. J.  
 Baltimore, Md.  
 Johnstown, Pa.  
 Racine, Wis.  
 Phillipsburg, N. J.  
 Uniontown, Pa.  
 Durham, N. C.  
 Creedmoor, N. C.  
 Baldwin, N. Y.  
 Cranbury, N. J.  
 Danvers, Mass.  
 Greensboro, N. C.  
 Durham, N. C.  
 Birmingham, Mich.  
 Hamlet, N. C.  
 Raleigh, N. C.  
 Camden, N. J.  
 Tampa, Fla.  
 Mocksville, N. C.  
 Norfolk, Va.  
 Baltimore, Md.  
 Durham, N. C.  
 Wilmington, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Baltimore, Md.  
 Rocky River, Ohio  
 Ahoskie, N. C.  
 Arlington, Va.  
 Baltimore, Md.  
 Glendale, Calif.  
 Raleigh, N. C.



Council, William Christopher Spec.  
 Covington, William Horace, Jr. 7  
 Cox, Ernest Howard 0  
 Cox, John Tomlinson 4  
 Cox, John William 2  
 Craddock, John Goodwin 4  
 Craft, Thomas L., Jr. 5  
 Crandall, Chauncey Warren 0  
 Crandall, Milton Albert 2 E  
 Crane, James Dewar 0  
 Cranford, Henry Lee 6 E  
 Craniotis, George E. 6 E  
 Craun, Dwight Marvin 4  
 Crawford, Frank Teller 0  
 Crawford, Malcolm Francis 0  
 Crawford, Marvel James, Jr. 0  
 Creesy, William Martin 7  
 Crevasse, Lamar E., Jr. 4  
 Crew, Wilbur Henry 0  
 Crigger, Harry George 2  
 Crigler, Benner Bittinger 2  
 Crimmins, Frank Joseph 1  
 Criswell, Howard D. 6  
 Croft, John Lyle 5  
 Crook, James Rutland, Jr. 4  
 Cross, Eugene Boyce 6 (Spec.)  
 Cross, William Hoyle 0  
 Crowder, Richard Joseph 0  
 Crowe, Charles L. 4  
 Croy, Walter Harley 2  
 Crumley, John Norman 0  
 Culbreth, James Harold 8  
 Cummings, James H. 3  
 Cummins, Charles Albert 0  
 Currin, William Dodson 0  
 Curry, Donald Lord 0  
 Curry, John Robert 7  
 Curtis, A. L. 1  
 Cuyler, R. Duncan 2  
 Dabbs, Thomas M. 4  
 Dail, Bernard Eugene 7  
 Dailey, Henry E., Jr. 2  
 Daine, Donn David 0  
 Dale, Francis Edward 0  
 D'Alonzo, Albert F. 5  
 Daly, Paul Francis 0  
 Damaskos, Nicholas Byron 0  
 Damren, Jerome H. 7  
 Daniel, Eugene Thomas 0  
 Daniel, Joseph Marsh 7  
 Daniel, McRobert Taylor 4  
 Dannals, George Clark, Jr. 6 E  
 Dannenberg, Richard Bruce 0  
 Dark, Robert Hanner 3  
 Davidson, Lindell Alf. 6 E  
 Davidson, Williams Tilghman, Jr. 0  
 Davies, Pete J. 2  
 Davis, Arnold Van Osdal 4  
 Davis, Benjamin Brockman 0  
 Davis, Harold James 1

Durham, N. C.  
 Polkville, N. C.  
 Durham, N. C.  
 Mount Olive, N. C.  
 Mt. Airy, N. C.  
 Charlotte, N. C.  
 Bethel, N. C.  
 Irvington, N. J.  
 Staten Island, N. Y.  
 Warren, Pa.  
 Winston-Salem, N. C.  
 Honduras, Central America  
 Portsmouth, Va.  
 Hartsville, S. C.  
 Wilmington, N. C.  
 Asheville, N. C.  
 Columbus, Ohio  
 Tampa, Fla.  
 Baltimore, Md.  
 Fort Sill, Okla.  
 Charlotte, N. C.  
 New York, N. Y.  
 Durham, N. C.  
 Jonesboro, Ark.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Bristol, Tenn.  
 High Point, N. C.  
 Durham, N. C.  
 Swannanoa, N. C.  
 Pueblo, Colo.  
 Hillsboro, N. C.  
 Villanova, Pa.  
 Baltimore, Md.  
 Oxford, N. C.  
 Miami, Fla.  
 High Point, N. C.  
 Gaffney, S. C.  
 Durham, N. C.  
 Mayesville, S. C.  
 Kinston, N. C.  
 Watertown, Mass.  
 Fort Knox, Ky.  
 Ventnor City, N. J.  
 Philadelphia, Pa.  
 Malden, Mass.  
 Gary, Ind.  
 Durham, N. C.  
 Durham, N. C.  
 Parkton, N. C.  
 Warrenton, N. C.  
 Deland, Fla.  
 Cedarhurst, N. Y.  
 Siler City, N. C.  
 Trenton, Tenn.  
 Annapolis, Md.  
 Durham, N. C.  
 New Albany, Ind.  
 New York, N. Y.  
 Scranton, Pa.

Davis, Hubert Vincent, Jr. 0	Bloomfield Hills, Mich.
Davis, James Howell 5	Matoaka, W. Va.
Davis, James William 5	Wilson, N. C.
Davis, Jolyon E. L. 0	Raleigh, N. C.
Davis, Richard Amos 0	Newark, Dela.
Davis, Richard D. 6	Candler, N. C.
Davis, Robert Brandon 4	Newark, Dela.
Davis, Robert Louis 0	Huntington, W. Va.
Davis, Robert Paul 0	Schuylkill Haven, Pa.
Davis, Roger Wesley 0	Johnstown, Pa.
Davison, Alexander T. 8	Durham, N. C.
Dawes, Kenneth Janney, Jr. 0	Lawrenceville, N. J.
Dawes, Redmond Blanford 2	Roxboro, N. C.
Day, Douglas F. 4 E	Plainfield, N. J.
Dayton, Charles C. 4	Plandome, N. Y.
Deal, C. Pinckney 0	Charlotte, N. C.
Dean, Earnest W. 2	Bartow, Fla.
Dean, John William 6	Stovall, N. C.
Dearmont, Nelson Strother 0	Winter Park, Fla.
Deaton, Donald Burette 6	Mooreville, N. C.
DeCossier, Linton Henry 7	Grosse Pointe, Mich.
Dee, John B. 6 E	New York, N. Y.
deGuzman, Robert John 2	Hudson, N. Y.
DeLaughter, George Dewey 2	Asheboro, N. C.
Delchamps, Alfred Frederick 0	Mobile, Ala.
Delionback, Leon M. 4 E	Durham, N. C.
Dellinger, David C. 2 E	Cherryville, N. C.
DeLong, David Deisehr 0	Reading, Pa.
Demidowitz, Bill Pete 0	Neptune, N. J.
Denny, George Richard 0	Richmond, Ind.
Denton, Don Richard 0	Washington Court House, Ohio
Denton, Robert Hurd, Jr. 2 E	Washington, D. C.
DePalma, Felix 3	Feeding Hills, Mass.
DePass, Skottowe W. 4	Camden, S. C.
DeRogatis, Albert John 7	Newark, N. J.
deShazo, Thomas Edward, Jr. 6	Ankara, Turkey
Desrosiers, Norman A. 5	Creedmoor, N. C.
Detwiler, George Danehower 0	Collegeville, Pa.
Devendorf, Wilbur, Jr. 4	Asheville, N. C.
DeVore, Robert Newton 4	Ninety-Six, S. C.
Deyton, Robert Guy, Jr. 2	Raleigh, N. C.
Diamond, Gustave 2	Burgettstown, Pa.
Dickens, Wade Hampton, Jr. 2	Scotland Neck, N. C.
Dickerson, Claud Malone 4 E	Durham, N. C.
Dickerson, Joe Arthur 0	Pomona, Calif.
Dickerson, John William 4	Danville, Va.
Dickson, Robert Eric 0	Arlington, Va.
Dickson, William Anthony 5	Nashville, Ga.
Diffenbach, Otto Weaver, Jr. 0	Ruxton, Md.
Dillard, Lorenzo Jackson, Jr. 0	DeLand, Fla.
Dilts, Charles Robert 0	Durham, N. C.
DiMonna, Anthony John 2	Haddonfield, N. J.
Divine, Thomas McCallie, Jr. 0	Kingsport, Tenn.
Dixon, James L. 4	Kew Gardens, N. Y.
Doescher, Richard E. 4	Attleboro, Mass.
Doggett, Lewis C. 6	Greenwood, S. C.
Doherty, Andrew J. 4 E	Lake Worth, Fla.
Döhner, Donald Canfield 0	Havertown, Pa.
Domingos, William Robert 4	Macon, Ga.

Donoho, Glen Bondurant 0  
 Donovan, James J., Jr. 0  
 Donovan, John Smith 4  
 Dorman, Charles T. 2  
 Dorton, John Pete 4  
 Dotson, Claude J. 4  
 Douglas, William Forbes, Jr. 2  
 Douros, John D., Jr. 0  
 Downey, Thomas Dickson 0  
 Downing, William Thomas 0  
 Downs, Kenneth Ray 3  
 Doyle, Kenneth Ray 0  
 Dozier, Ollin Kemp 2  
 Drakeford, William White 7  
 Draughon, Donald Ray 4  
 Drew, Mitchell N. 6  
 Driscoll, Richard H. 6  
 Driver, Tom F. 4  
 Drumm, James C. 7  
 Drummond, Heyward Levin 2  
 Dudley, Frank Thomas 7  
 Dudley, Theodore R. 7  
 Duff, Robert Christie 1  
 Dugan, Robert John 0  
 Dukes, Herbert Trice 0  
 Duncan, Guy Eugene 2  
 Duncan, John Julian 0  
 Duncan, Joseph Capers 6 E  
 Duncan, Joseph Meacham 6 E  
 Duncan, Lewis William 7  
 Duncan, Robert Anderson 4  
 Dungan, Walter P. 4  
 Dunham, Donnell Paul 5  
 Dunn, Francis Borgia 2  
 Dunne, Walter Vincent 0  
 Dunphey, Everett Richard 2  
 Dunphy, James M. 9  
 Dunson, John Clark 0  
 Dunson, Sanford Allen 4  
 Durham, Lee Ballinger 0  
 Duttweiler, Charles 2 E  
 Dwiggins, Gordon Leslie 4 E  
 Dworsky, Leon J. 5  
 Dye, Bobby Eugene 4  
 Dyson, Henry Harrison 3  
 Dilts, Edgar Louis 0  
 Eades, Howard Ernest 0  
 Earley, Charles M., Jr. 4  
 Early, Albert Terry 8  
 Earnest, Alfred B. 7  
 Earon, Blaine Allen 0  
 Eason, Julian Kenneth 4  
 Eaton, H. Thomas, Jr. 0  
 Eddowes, Edward Everett 2  
 Edens, John Clarence 4  
 Edgar, John Roland 6 E  
 Edmonds, Eugene G. 6  
 Edwards, Charles Murphy 2  
 Edwards, Claude Everett, Jr. 0  
 Edwards, Ian Keith 7

Paducah, Ky.  
 Brighton, Mass.  
 Haddonfield, N. J.  
 Durham, N. C.  
 Durham, N. C.  
 Manchester, Ind.  
 New Orleans, La.  
 Clifton, N. J.  
 Haddonfield, N. J.  
 Decatur, Ill.  
 Pineville, N. C.  
 Winston-Salem, N. C.  
 Rocky Mount, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Quincy, Fla.  
 Charlotte, N. C.  
 Bristol, Tenn.  
 Durham, N. C.  
 Norfolk, Va.  
 Durham, N. C.  
 Parkersburg, W. Va.  
 Englewood, N. J.  
 Flushing, N. Y.  
 Tampa, Fla.  
 Morganton, N. C.  
 Kansas City, Mo.  
 Asheville, N. C.  
 Asheville, N. C.  
 Morganton, N. C.  
 Asheville, N. C.  
 Glendale, Calif.  
 Salisbury, N. C.  
 Brighton, Mass.  
 Garden City, N. Y.  
 Merchantville, N. J.  
 Lawrenceville, Ill.  
 LaGrange, Ga.  
 Summerville, Ga.  
 Birmingham, Mich.  
 Ridgewood, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 Keystone, W. Va.  
 West Point, Va.  
 Durham, N. C.  
 Normal, Ill.  
 Norfolk, Va.  
 Welch, W. Va.  
 Bethesda, Md.  
 Altoona, Pa.  
 Durham, N. C.  
 Brockton, Mass.  
 Albington, Pa.  
 Rowland, N. C.  
 Coatesville, Pa.  
 Hampton, Va.  
 Weldon, N. C.  
 Pensacola, Fla.  
 Abbeville, S. C.

- Edwards, William Burrell 2  
 Edwards, William Harrison 6  
 Egan, James D. 4 E  
 Einbinder, Sidney 6  
 Eirich, Robert Lee 6  
 Eisaman, Jack Verner 2 E  
 Eisenberg, Lloyd 6  
 Eisenbrandt, Fred Henry 2 E  
 Elam, Clarence R., Jr. 0  
 Elias, William Siler 4  
 Ellers, Norman L. 4  
 Ellington, William Thomas 0  
 Elliott, A. John, Jr. 5  
 Elliott, Floyd Avery 6  
 Elliott, Greer Woltz 4  
 Elliott, Henry Kerley 6 E  
 Elliott, Stuart Whitfield 4  
 Ellis, Charles T. 7  
 Ellsworth, John Charles 6  
 Elmore, E. P., Jr. 4 E  
 Elrod, William Alexander 4 E  
 Emge, Leonard Edward 2  
 Emmons, Curtis G. 6  
 Enander, John Ellis 2  
 Eng, George Eric 2  
 Engberg, John Pierson 0  
 Eppley, Ernest D. 3  
 Epps, Charles Lee 0  
 Epps, Joe Schrum 0  
 Erickson, John Stuart 5  
 Erwin, Julian, Jr. 1  
 Eslick, J. W. 4  
 Esposito, Robert Vincent 3  
 Eure, Thomas Duncan 0  
 Evans, David R., II 6  
 Evans, Eugene Micheaux, Jr. 4  
 Evans, Gerald W. 6  
 Evans, Harold D. 7  
 Evans, Merle DeVere, Jr. 0  
 Evans, Paul Franklin 7  
 Evans, Thomas Earl 4  
 Evans, Thomas Everett 2  
 Evans, William C., Jr. 4  
 Evenson, Jerome 5  
 Fahey, Francis Patrick 2  
 Faircloth, Bradley Edwin 0  
 Fairey, Robert Lewis 7  
 Fakkema, Robert Edward 4  
 Faley, Richard William 1  
 Falwell, John James 3  
 Fanjoy, Weldon Sutherland 5  
 Farfour, Michaux J. 1  
 Farinella, Donald Anthony 2  
 Farley, Francis C. 0  
 Farmer, John Lovelace, Jr. 0  
 Farno, Glenn Anderson 3  
 Farquhar, Clyde Randolph 2  
 Farquhar, Richard Lewis 0  
 Farr, Thomas Nelson 6  
 Farrell, Paul Harry 4  
 Star, N. C.  
 Williamsport, Pa.  
 Durham, N. C.  
 West Springfield, Mass.  
 Baltimore, Md.  
 Blairsville, Pa.  
 Philadelphia, Pa.  
 Baltimore, Md.  
 Whitehaven, Tenn.  
 Asheville, N. C.  
 Carolina Beach, N. C.  
 Warrenton, N. C.  
 Miami Beach, Fla.  
 Chester, S. C.  
 Durham, N. C.  
 Durham, N. C.  
 Charlotte, N. C.  
 Orlando, Fla.  
 New Orleans, La.  
 Rocky Mount, N. C.  
 Chadbourn, N. C.  
 San Antonio, Texas  
 Asbury Park, N. J.  
 Plainfield, N. J.  
 Englewood, N. J.  
 Bradenton, Fla.  
 Cramerton, N. C.  
 Newton, N. C.  
 Newton, N. C.  
 Bay Shore, N. Y.  
 Harlan, Ky.  
 Fayetteville, Tenn.  
 East Orange, N. J.  
 Beaufort, N. C.  
 Charleston, W. Va.  
 Durham, N. C.  
 Connellsville, Pa.  
 Elloree, S. C.  
 Massillon, Ohio  
 Lexington, N. C.  
 Norfolk, Va.  
 Scranton, Pa.  
 Gainesville, Fla.  
 Wilmington, N. C.  
 Worcester, Mass.  
 Greensboro, N. C.  
 Durham, N. C.  
 Lomita Park, Calif.  
 West Hartford, Conn.  
 Brookline, Mass.  
 Statesville, N. C.  
 Goldsboro, N. C.  
 Passaic, N. J.  
 Charleston, W. Va.  
 Wilson, N. C.  
 Akron, Ohio  
 Evansville, Ind.  
 Monessen, Pa.  
 Charlotte, N. C.  
 Everett, Mass.



Faw, Dennis 6  
 Featherston, Alwyn Louis 6  
 Felker, Clay S. 6  
 Fels, Frederic 8  
 Felt, Jeremy P. 1  
 Felts, Robert Lee 1  
 Fenner, William Eaton 2 E  
 Ferguson, Cortez W., Jr. 3  
 Ferrell, Marshall Carr, Jr. 4  
 Ferris, Arthur Edward 4  
 Fetner, Donald Hughey 4  
 Few, John Francis 2  
 Fick, William George, Jr. 2  
 Fiegel, Harvey E. 2 E  
 Fields, Joseph B. 0  
 Finberg, Robert Louis 0  
 Finch, James Eugene 2 E  
 Fink, Don Roger 0  
 Finn, Raymond Eugene 1  
 Fischell, Robert E. 2 E  
 Fish, Donald George 2  
 Fische, Gerald R. A. 6 E  
 Fisher, Albert Fleet 2  
 Fisher, James Edwin 2  
 Fisher, Robert Joseph 6  
 Fisher, Robert Lee 3  
 Fisher, William David 2  
 Fisher, William Prescott 0  
 Fitch, James Burr, Jr. 4 E  
 Fitzgerald, Paul Foust 1  
 Fitzsimons, Joseph Graham 6  
 Fleetwood, Edgar Allen 4  
 Fleming, Ralph L., Jr. 4  
 Fleming, Robert Edward 2  
 Fleming, William B. 6  
 Fleming, William McCurdy 0  
 Flint, Thomas Levings 0  
 Floyd, Daniel J. 6  
 Floyd, William S. 6 E  
 Flynn, Wilson Paul 6  
 Flythe, Walter White 2  
 Foard, Milton Cowan 4  
 Fogle, Richard DeWitt 4  
 Fogleman, Lindsay L. 6 E  
 Fogleman, Ross Lee 7  
 Folckemer, Clarence Edward 5  
 Folger, Fred, Jr. 6  
 Folk, Chris Evans 0  
 Forbes, Daniel Sylvester 6  
 Forbes, Donald B. Spec.  
 Forbes, Gordon Maxwell 0  
 Ford, Harold E. 4  
 Ford, John Byron 0  
 Ford, Joseph T. 4 E  
 Ford, Reed Randall 0  
 Fore, Edwin Louis 2 E  
 Foreman, Edwin E. 5  
 Foreman, James Graham 5  
 Foreman, James M., Jr. 4 E  
 Foreman, Thomas Lee 0

Winston-Salem, N. C.  
 Durham, N. C.  
 Webster Groves, Mo.  
 Durham, N. C.  
 Putnam Valley, N. Y.  
 Charlotte, N. C.  
 Rocky Mount, N. C.  
 Greensboro, N. C.  
 Petersburg, Va.  
 New York, N. Y.  
 Durham, N. C.  
 Greensboro, N. C.  
 Passaic, N. J.  
 Durham, N. C.  
 Wilmington, N. C.  
 Englewood, N. J.  
 Louisburg, N. C.  
 Reading, Pa.  
 Towson, Md.  
 New York, N. Y.  
 Pennsgrove, N. J.  
 London, England  
 Fairmont, N. C.  
 Durham, N. C.  
 Athens, Tenn.  
 Grosse Pointe, Mich.  
 Roxboro, N. C.  
 Grosse Pointe, Mich.  
 Stratford, Conn.  
 Candor, N. C.  
 Charlotte, N. C.  
 Weston, W. Va.  
 Portsmouth, Va.  
 Henderson, N. C.  
 Ravenswood, W. Va.  
 Philadelphia, Pa.  
 Joilet, Ill.  
 Fairmont, N. C.  
 Durham, N. C.  
 West Haven, Conn.  
 Fieldale, Va.  
 Marion, S. C.  
 Durham, N. C.  
 Durham, N. C.  
 Greensboro, N. C.  
 York, Pa.  
 Mt. Airy, N. C.  
 Charlotte, N. C.  
 Hendersonville, N. C.  
 Parkersburg, W. Va.  
 Patchogue, N. Y.  
 Richmond, Ind.  
 Alexander City, Ala.  
 Charleston, S. C.  
 Durham, N. C.  
 Sanford, N. C.  
 Durham, N. C.  
 Elizabeth City, N. C.  
 Durham, N. C.  
 Durham, N. C.

- Fornes, Guy Leo 0  
 Forrest, Otto Norman 6  
 Forrester, Eugene N. 6  
 Foster, Jack 7  
 Foster, Kenneth E. 0  
 Foster, Zaro Elton 2  
 Fowler, Newton Oliver, Jr. 0  
 Fox, Edgard C., Jr. 2 E  
 Fox, John Howard 0  
 Frady, Andrew Hampton 2  
 Frame, Norman R., Jr. 2 E  
 Frank, William Elmore 2 E  
 Franklin, Andrew Jackson 0  
 Franks, Stephen Field 0  
 Freeland, James J. 4  
 Freeman, James T. 3  
 Freeman, William Shuford 7  
 Freeman, William Townsend 4  
 Freeze, Jack E. 6 E  
 French, Robert, Jr. 6  
 Frenzel, Charles Spec.  
 Frey, Frank T. 2 E  
 Friedlund, John Edwin 1  
 Friedman, Burnam I. 2 E  
 Friedman, Fred J. 4  
 Frierson, Wallace Brown 2  
 Freschmann, Charles P. 3  
 Fritz, Edmund William 2 E  
 Fry, John Sedgwick 2  
 Fry, Ray Macnairn 4  
 Frye, Jerry L. 6  
 Frye, Robert D. 7  
 Fuller, Melville Weston, Jr. 4  
 Fullerton, John C., Jr. 4 E  
 Fulmer, Elroy Menasco 0  
 Fulp, Kenneth E. 5  
 Fulweiler, Robert Edward 2  
 Furber, Edward S. 4  
 Futrell, James L. 5  
 Gale, Glen Roy 4  
 Galifanakis, Nick 2  
 Gallagher, Jerold G. 2  
 Gallant, William Erskine, Jr. 6  
 Galyon, James Douglas 0  
 Game, Paul, Jr. 0  
 Gannon, John Joseph 6  
 Garber, Mark E. 4  
 Garceau, Arthur Joseph 4  
 Gardinier, Richard J. 5  
 Gardinier, Theodore David 2  
 Gardner, Samuel Watson, Jr. 4  
 Garlington, James Conway 0  
 Garlington, Laurens N. 4  
 Garriss, Marcus A. 6  
 Garvine, Richard Earle 2  
 Gaston, Harley Black, Jr. 0  
 Gatling, James Edward 6  
 Gatling, Wilfred C., Jr. 6  
 Gaull, Gerald Edward 0  
 Gausman, William Henry, Jr. 0  
 Durham, N. C.  
 Washington, D. C.  
 Durham, N. C.  
 Mt. Lakes, N. J.  
 Winston-Salem, N. C.  
 Harmony, N. C.  
 Mt. Airy, N. C.  
 Lynbrook, N. Y.  
 Hollis, N. Y.  
 Wilmington, N. C.  
 New York, N. Y.  
 New York, N. Y.  
 Washington, N. C.  
 Hendersonville, N. C.  
 Miami Beach, Fla.  
 Durham, N. C.  
 Dacusville, S. C.  
 Great Falls, S. C.  
 Charlotte, N. C.  
 Durham, N. C.  
 Jamaica, N. Y.  
 Elberon, N. J.  
 Chicago, Ill.  
 Baltimore, Md.  
 Durham, N. C.  
 Mt. Pleasant, Tenn.  
 Forest Hills, N. Y.  
 Arlington, Va.  
 Philadelphia, Pa.  
 Rabun Gap, Ga.  
 Gastonia, N. C.  
 Gastonia, N. C.  
 Madison, Va.  
 Orange, Va.  
 Honolulu, Hawaii  
 Charleston, S. C.  
 Columbia, Pa.  
 St. Petersburg, Fla.  
 Greenville, N. C.  
 Mount Crogan, S. C.  
 Durham, N. C.  
 Hampton, Va.  
 Anderson, S. C.  
 Greensboro, N. C.  
 Tampa, Fla.  
 Montclair, N. J.  
 Carlisle, Pa.  
 Pembroke, Mass.  
 Miami, Fla.  
 Alfred, N. Y.  
 Charlotte, N. C.  
 Birmingham, Ala.  
 Birmingham, Ala.  
 Wadesboro, N. C.  
 Wilmington, Dela.  
 Belmont, N. C.  
 Norfolk, Va.  
 Durham, N. C.  
 Detroit, Mich.  
 South Orange, N. J.

Gaylord, Jackson Eldridge 4  
 Genette, Sidney Wilson, Jr. 0  
 Genberg, David Edwin 0  
 George, Harris James 2  
 Gerstein, Joe Willie 6  
 Gessner, Lawrence K. 4  
 Gibbs, C. Leon 6 E  
 Gibbs, Raeford Frank 2  
 Gibbs, Robert Coleman 0  
 Gibbs, William Bryan 4 E  
 Gibson, Harold E., Jr. 0  
 Gibson, James Franklin 0  
 Gibson, James Edward 4  
 Gibson, John D. S. 2  
 Gibson, Robert Bruce 4  
 Gibson, Robert Stansill 6  
 Giese, Richard W. 8  
 Gifford, Neil Allen 6  
 Gilbertson, John Robert 5  
 Gilfillan, Charles McGrew 2  
 Gill, Francis Kilpatrick 6  
 Gill, Harold Eugene 2  
 Gill, Robert C. 7  
 Gilliam, John Rue 1  
 Gilliland, John H. 7  
 Gilmer, William Dryden 4  
 Gilpatrick, Elmer Ellsworth 0  
 Gimler, John Robert 5  
 Glaze, John William 4  
 Glaze, Richard 0  
 Glazier, Leland C. 2  
 Gleason, William Lounsbery 4  
 Glenn, Earl Hollis 0  
 Glenn, Irwin 2  
 Glenn, Marvin T. 4  
 Glenn, Samuel Bailey 4  
 Glennie, John Raymond 1  
 Glover, Edward J., Jr. 5  
 Glover, James A. 4  
 Glover, Robert Keith 2  
 Gobbel, Luther Russell 0  
 Gochnauer, Richard B. 9  
 Goebert, Herbert William, Jr. 0  
 Goeke, William Henry 6  
 Goettel, Gerard Louis 4  
 Goettsch, LaVerne Stanley 0  
 Goldman, Jay 4 E  
 Goldwasser, Maxwell Robert 0  
 Gonzalez, Robert Eugene 2 E  
 Goodman, Arthur 4  
 Goodman, Fred Watson 6 E  
 Goodman, Howard 6 E  
 Goodwill, William Ferguson 6  
 Goodwin, Donald C. 2  
 Gordon, Norman H. 0  
 Gordon, Robert Miller, Jr. 0  
 Gordon, Sam 2  
 Gordon, Richard W. 6  
 Gore, Thomas W. 4  
 Gorham, Alden Burr, Jr. 0

Belhaven, N. C.  
 Memphis, Tenn.  
 Englewood, N. J.  
 Towson, Md.  
 Covington, Ga.  
 Plainfield, N. J.  
 Reidsville, N. C.  
 Asheville, N. C.  
 Bath, N. C.  
 Reidsville, N. C.  
 Kenton, Ohio  
 Wilmington, N. C.  
 Winston-Salem, N. C.  
 Chevy Chase, Md.  
 Winston-Salem, N. C.  
 Rockingham, N. C.  
 South Kent, Conn.  
 Estill, S. C.  
 West Medford, Mass.  
 Trenton, N. J.  
 Raleigh, N. C.  
 Jacksonville, Fla.  
 Pelham Manor, N. Y.  
 Pine Beach, N. J.  
 Utica, Pa.  
 Kingsport, Tenn.  
 Bangor, Maine  
 Far Hills, N. J.  
 Clermont, Fla.  
 Orlando, Fla.  
 Petersburg, Va.  
 Daytona Beach, Fla.  
 Durham, N. C.  
 Burlington, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Kennebunk Port, Maine  
 Lumberton, N. C.  
 Wilmington, N. C.  
 Bailey, N. C.  
 Greensboro, N. C.  
 Baltimore, Md.  
 Coatesville, Pa.  
 Detroit, Mich.  
 Pelham, N. Y.  
 Winterset, Iowa  
 Durham, N. C.  
 New York, N. Y.  
 Tampa, Fla.  
 Charlotte, N. C.  
 Kannapolis, N. C.  
 New York, N. Y.  
 Miami, Fla.  
 Durham, N. C.  
 Pinnacle, N. C.  
 Carnegie, Pa.  
 Asheville, N. C.  
 South Jacksonville, Fla.  
 Jackson, Miss.  
 Englewood, N. J.

- Gorrell, Joseph Palmer 6  
 Gossett, Charles Robert 2  
 Gosnell, Clarence William, Jr. 1  
 Goswick, Claude Benjamin 2  
 Gould, Kenneth George, Jr. 4  
 Govan, Colin M. 2 E  
 Grabowski, Edwin Theo 0  
 Grace, John V. 2  
 Graham, Franklin Clarence 2  
 Graham, Frederick William, Jr. 5  
 Graham, Joseph Lawrence 0  
 Graham, Otho Leslie 0  
 Grah, Bobby Howard 0  
 Grantham, George K. 4  
 Gray, Cecil Robbins 6  
 Gray, Harris D. 3  
 Gray, William James 4  
 Greb, Don Holmes 2  
 Greco, John 4  
 Greenleaf, Thomas Raymond 4 E  
 Greenberg, Milton 2  
 Greenberger, Stephen A. 2  
 Greene, Albert James 2  
 Greene, Fred M., Jr. 2  
 Greenebaum, Howard M. 0  
 Griffin, Charles Wesley 2  
 Griffith, William J. 4  
 Grigg, Marvin Atkin, Jr. 2  
 Grigg, Womble Quay, Jr. 6  
 Grimes, James F., Jr. 4  
 Grisso, John Kennedy 2  
 Groat, Richard Morrow 0  
 Groff, Allan William 8  
 Groome, James Hunter 7  
 Grose, George B. 6  
 Groshens, David E., Jr. 6  
 Grossnickle, William Foster 2  
 Grove, Charles David 2 E  
 Grover, Carl Atwood, Jr. 6  
 Grune, George Vincent 0  
 Gubbins, Clarence Paul 4  
 Gude, Robert L. 0  
 Guest, Floyd Emory, Jr. 0  
 Guinee, William Fenton 6  
 Gullett, George Harris, Jr. 4  
 Gulum, Fahir 4 E  
 Gumkowski, Thaddeus Raymond 4  
 Gup, Mark Kramer 0  
 Gwyn, Julius J. 4  
 Haas, William Howard 4  
 Hackett, William E. 6  
 Hackney, Ben Hall 2  
 Hackney, Edwin Atwater 2  
 Haft, Richard Jay 0  
 Hager, Dudley Pierce 0  
 Hahn, Raymon Jenkin 0  
 Hail, Joe James, Jr. 0  
 Haim, Liam 2  
 Haines, Robert Earl 6 E  
 Haines, William E. Spec.  
 Greensboro, N. C.  
 Whitehaven, Tenn.  
 Washington, D. C.  
 Durham, N. C.  
 Tampa, Fla.  
 Collingdale, Pa.  
 Seymour, Conn.  
 St. Albans, N. Y.  
 Oaklyn, N. J.  
 Charleston, W. Va.  
 New City, N. Y.  
 Bartow, Fla.  
 Asheville, N. C.  
 Durham, N. C.  
 South Boston, Va.  
 Paris, Mo.  
 Mt. Hope, W. Va.  
 Chicago, Ill.  
 Hewlett, N. Y.  
 Downingtowne, Pa.  
 Danville, Va.  
 Morris Plains, N. J.  
 Forest Hills, N. Y.  
 Chestnut Hill, Pa.  
 Baltimore, Md.  
 Greensboro, N. C.  
 Ft. Thomas, Ky.  
 Lawndale, N. C.  
 Sylva, N. C.  
 Rocky Mount, N. C.  
 Alexandria, Va.  
 Pittsburgh, Pa.  
 Lancaster, Pa.  
 Ft. Lauderdale, Fla.  
 St. Paul, Minn.  
 Glenside, Pa.  
 Nutley, N. J.  
 Alliance, Ohio  
 Altoona, Pa.  
 White Plains, N. Y.  
 Elgin, Ill.  
 Englewood, N. J.  
 Starr, S. C.  
 New Orleans, La.  
 Fayette, Ala.  
 Istanbul, Turkey  
 Branford, Conn.  
 Pensacola, Fla.  
 Reidsville, N. C.  
 Norwalk, Conn.  
 Philadelphia, Pa.  
 Lucama, N. C.  
 Charlotte, N. C.  
 New York, N. Y.  
 Louisville, Ky.  
 New York, N. Y.  
 Jacksonville, Fla.  
 Yonkers, N. Y.  
 Catskill, N. Y.  
 Durham, N. C.



Hakan, M. Joseph 6 E  
 Hale, Joseph Mack 2  
 Hall, Frederick Lewis 4 E  
 Hall, Jim Thomas 6  
 Hall, John Woosley 0  
 Hall, Kenneth D. 6  
 Hall, Leslie Marshall, Jr. 1  
 Hall, Lytle Foster 2  
 Hall, Robert P. 6 E  
 Hall, Wayne T. 4 E  
 Hamilton, James L., Jr. 4 E  
 Hamilton, John Waddey, Jr. 4  
 Hamilton, Wilson L. 8  
 Hamm, Kyle E. 2  
 Hammer, William H. 4  
 Hammond, David P. 7  
 Hampton, William Robert 4  
 Hancock, Jonathan Howard  
 Hand, Edgar Hall 7  
 Hanes, Phillip Frank 4  
 Hankins, William Edward, Jr. 2 E  
 Hann, William G. 6 E  
 Hannin, George Alphonse, III 0  
 Hannon, Fred L. 4 E  
 Hanson, Elmer David 2  
 Hanson, William Robert 0  
 Hardee, Walter Person, Jr.  
 Harden, Garland Spencer 1  
 Hardin, Paul, III 0  
 Hardison, Frederick Leon 6 E  
 Hardison, James Arthur, Jr. 0  
 Hardy, Neal David 2 E  
 Harman, Alonzo Lincoln 2  
 Harper, Clyde Wallace 4  
 Harper, Jack Bourque 6 E  
 Harrell, W. Dwight Spec.  
 Harrell, James Clinton 7  
 Harrington, Alfred Merle 0  
 Harrington, Thomas S. 8  
 Harris, Allan R. 6  
 Harris, Clinton Ross 3  
 Harris, Elisha C. 2  
 Harris, Henry S. 7  
 Harris, Jack Buren 4 E  
 Harris, John Balle 2  
 Harris, James Amos 0  
 Harris, Paul Black Spec.  
 Harris, Thomas B. 3  
 Harris, Thomas C. 6 E  
 Harris, William Randall 0  
 Harris, William Daniel 2  
 Harrison, Richard Paige 2 E  
 Harrison, Nathaniel Mason, Jr. 5  
 Harriss, Clyde Hampton 7  
 Hart, Wilmer Donald, Jr. 0  
 Hartzell, Arthur R. 6  
 Harvey, Sam L. 2  
 Harvin, James Shand 4  
 Harward, Ernest David 2 E  
 Hassell, T. Fleetwood 6

Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 High Point, N. C.  
 High Point, N. C.  
 Durham, N. C.  
 Cradock, Va.  
 Cincinnati, Ohio  
 Rocky Mount, N. C.  
 Charlotte, N. C.  
 Uniontown, Pa.  
 Martinsville, Va.  
 Highland Park, Ill.  
 West Palm Beach, Fla.  
 Buchanan, Va.  
 Cerro Gordo, N. C.  
 Winston-Salem, N. C.  
 Sebring, Fla.  
 Pineville, N. C.  
 Walkertown, N. C.  
 Christiansburg, Va.  
 Brownsville, Pa.  
 Paducah, Ky.  
 Charleston, W. Va.  
 Massillon, Ohio  
 Baltimore, Md.  
 Durham, N. C.  
 Sanford, Fla.  
 High Point, N. C.  
 Williamston, N. C.  
 High Point, N. C.  
 Park Ridge, Ill.  
 Bluefield, W. Va.  
 Greer, S. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Gaffney, S. C.  
 Henderson, N. C.  
 Henderson, N. C.  
 Milton, Mass.  
 Durham, N. C.  
 Durham, N. C.  
 Norfolk, Va.  
 Greensboro, N. C.  
 Albemarle, N. C.  
 Scotland Neck, N. C.  
 Harrisburg, Pa.  
 Charlotte, N. C.  
 Durham, N. C.  
 Asheville, N. C.  
 Charlotte, N. C.  
 Norfolk, Va.  
 High Point, N. C.  
 Salisbury, N. C.  
 Lisbon, Ohio  
 Trenton, N. J.  
 Jacksonville, Fla.  
 Manning, S. C.  
 Carbondale, Ill.  
 Atlanta, Ga.

- Hathaway, Irving Ralph 2  
 Hatley, Jimmy Worth 1  
 Haughton, William G. 6  
 Hauser, Robert Edward 4  
 Hautamaki, Edward William 4  
 Hawes, Raymond Burke 4  
 Hawkins, James Wendell 4  
 Hawkins, Raymond Landis 0  
 Hayes, Carlyle Bernard 4  
 Hayes, Kendall Preston 2  
 Hayward, Walter Wallace, Jr. 4 E  
 Hazel, Robert Lee 4 E  
 Heiss, Howard C. 4  
 Heller, John H. 4  
 Heller, Paul Edward 1  
 Heller, William Samuel 0  
 Helm, Carl Edward 6  
 Henderson, Thomas Briggs 0  
 Hendricks, Hayden Thomas 0  
 Hendrickson, Bartlett Roy 6  
 Hendrix, Thomas Lynch 4  
 Henkel, Lee H., Jr. 5  
 Hennessee, Manassa Nixon, III 0  
 Henry, John F. 4  
 Hensel, Richard H. S. 2  
 Herbin, Leonidas 4  
 Herlong, Bettis G. 6  
 Hermance, Donald Lewis 2  
 Hermann, Ernest C. 6  
 Herrmann, Melvin R. 6 E  
 Hernandez, Harley 6  
 Herriott, Donald Richard 6  
 Herron, John 2  
 Heslin, John Thomas 0  
 Hess, Donald 6  
 Hester, Bernard Crayton 4  
 Hibbitts, Harold Burns 4  
 Hibbitts, Josiah Benjamin 2  
 Hicks, Julius N. 6  
 Higginbotham, Allen Bane 2 E  
 Higgins, Fred Clay, Jr. 5  
 Higgins, Louis 0  
 Higgins, William Arthur 2  
 Highsmith, Albert Wagstaff 4  
 Hilker, John Hamilton 0  
 Hill, David William 2 E  
 Hill, Hoyt Gray 2  
 Hill, James Reynolds 2  
 Hill, Richard J. 0  
 Hiller, Karl Heinz 3  
 Hillman, Edgar L. 7  
 Hilton, James Lee 0  
 Hinson, Garland T. 6  
 Hipps, Herbert G. 7  
 Hirata, Arthur A. Spec.  
 Hodges, Charles Roland 7  
 Hodges, Henry Webster 0  
 Hodges, William S. 4  
 Hodgkins, George Clinton 0  
 Hodkgins, Lewis 7  
 Greenwich, R. I.  
 Albemarle, N. C.  
 Kingstree, S. C.  
 High Point, N. C.  
 Mass, Mich.  
 Northport, N. Y.  
 Bristol, Tenn.  
 Clarksburg, W. Va.  
 Winston-Salem, N. C.  
 Ridge, Ill.  
 Durham, N. C.  
 Durham, N. C.  
 Baltimore, Md.  
 Baltimore, Md.  
 Huntington, W. Va.  
 Pikesville, Md.  
 Shelton, Conn.  
 Charlotte, N. C.  
 Clarkton, Va.  
 Washington, D. C.  
 Charlotte, N. C.  
 Charleston, W. Va.  
 Concord, N. C.  
 Morrisville, N. Y.  
 Jersey City, N. J.  
 Greensboro, N. C.  
 Saluda, S. C.  
 Nashua, N. H.  
 Richmond, Va.  
 Pittsburgh, Pa.  
 Loris, S. C.  
 Chatham, N. J.  
 St. Petersburg, Fla.  
 Brooklyn, N. Y.  
 Durham, N. C.  
 Bladenboro, N. C.  
 Pikeville, Ky.  
 Nashville, Tenn.  
 Enterprise, Ala.  
 Iager, W. Va.  
 Rome, Ga.  
 Nesquehoning, Pa.  
 Farrell, Pa.  
 Durham, N. C.  
 Asheboro, N. C.  
 Poland, Ohio  
 Bowling Green, Ky.  
 Wheeling, W. Va.  
 Poland, Ohio  
 Berlin, Germany  
 Wilmington, N. C.  
 Texarkana, Texas  
 Whiteville, N. C.  
 Greensboro, N. C.  
 Roanoke, Va.  
 Ft. Lauderdale, Fla.  
 Norfolk, Va.  
 Dresden, Tenn.  
 Southern Pines, N. C.  
 Southern Pines, N. C.

Hodgson, Thomas Salkald 2  
 Hoellen, Earl E. 4 E  
 Hoey, Franklin James 2  
 Hofsommer, Armin Conrad 4  
 Hogan, John Thomas 6  
 Hogan, Joseph 5  
 Hogg, William James 2  
 Hoke, Kenneth B. 6 E  
 Holbrook, Harold Douglas 6 E  
 Holcroft, Charles Tilden, Jr. 6  
 Holden, Benjamin T. 8  
 Holland, Claude D. 4  
 Holland, Darrell Massey 2  
 Holland, Robert L. 6 E  
 Hollandsworth, Roy Melvin 0  
 Hollar, Homer C. 3  
 Hollenbeck, William Charles 0  
 Holloman, Milton C. 6  
 Holloway, Benjamin Duke 4  
 Holyfield, William Gilbert, Jr. 2  
 Holzinger, George C. 5  
 Homan, Henry Harbach 6  
 Honeycutt, Lex E. 4 E  
 Honeycutt, Robert Lee 6  
 Hood, Howard James 6  
 Hooker, Alfred Frank 0  
 Hooker, Raymond Bright, Jr. 0  
 Hooper, Glenn L. 4  
 Hooper, Ralph Leroy 4 E  
 Hooven, Wilbur Thomas, III 4 E  
 Hoover, George B. 0  
 Hopkins, James Ira 7  
 Hopper, Richard Francis 0  
 Hoppin, Stuart Bliss, Jr. 6  
 Horn, Robert Campbell 6  
 Horton, Bryan Thomas 2  
 Horton, Kenneth Irvin 0  
 Hoshall, Lee D. 3  
 Hottenstine, Richard D. 4 E  
 Houck, Frederic Ronald 0  
 Houck, William Bryan 6  
 House, James Stowe 2  
 House, Winfred Jackson 4  
 Houser, James Lloyd 0  
 Houston, Hugh Fitzgerald 0  
 Howard, J. Woodford, Jr. 0  
 Howard, Michael Ross 0  
 Howard, Richard Veloice 2  
 Howell, Clewell, Jr. 0  
 Howell, David Gist, Jr. 4  
 Howell, Thomas Milton 2  
 Howie, John Harvey, Jr. 0  
 Howse, Ralph Melvin 0  
 Hubbard, Edward Earl 3  
 Hubbard, Robert Carl 4  
 Huber, Donald Simon 2  
 Huckabee, Robert C. 5  
 Huckabee, Thomas F. 6  
 Hudgins, Walter Edward 2  
 Hudmon, I. Stanton 2

Bronxville, N. Y.  
 Chicago, Ill.  
 Wilmington, Del.  
 Webster Groves, Mo.  
 Durham, N. C.  
 Durham, N. C.  
 Rutherford, N. J.  
 Granite Quarry, N. C.  
 Kannapolis, N. C.  
 Detroit, Mich.  
 Macon, N. C.  
 Raleigh, N. C.  
 Raleigh, N. C.  
 Williamsport, Pa.  
 Salem, Va.  
 Yadkinville, N. C.  
 Palm Beach, Fla.  
 Durham, N. C.  
 Durham, N. C.  
 Roanoke, Va.  
 Riverside, R. I.  
 Lebanon, Pa.  
 Gold Hill, N. C.  
 Charlotte, N. C.  
 Baltimore, Md.  
 Martinsville, Va.  
 Kinston, N. C.  
 Dunn, N. C.  
 Asheville, N. C.  
 Bryn Mawr, Pa.  
 Williamsport, Pa.  
 Baltimore, Md.  
 Cherry Point, N. C.  
 Framingham, Mass.  
 Manhasset, N. Y.  
 Belmont, N. C.  
 Bellevue, Ohio  
 Baltimore, Md.  
 Leesport, Pa.  
 Carlisle, Pa.  
 Roanoke, Va.  
 Birmingham, Mich.  
 Durham, N. C.  
 Washington, D. C.  
 Rocky Mount, N. C.  
 Prestonburg, Ky.  
 Concord, N. C.  
 Grand Rapids, Mich.  
 Towson, Md.  
 Mt. Sterling, Ky.  
 Rock Hill, S. C.  
 Charlotte, N. C.  
 Fairfield, Ala.  
 Stedman, N. C.  
 Lancaster, S. C.  
 High Point, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Danville, Va.  
 Jacksonville, Fla.

- Hudson, Isham Barney 2  
 Hudson, John Grier 4  
 Hudson, Richard Page, Jr. 0  
 Hudson, Robert Clarence 0  
 Huffer, Nicholas Robinson 0  
 Huffines, D. H. 4  
 Huffman, William Howard 4 E  
 Huggins, Theodore Pollard 2  
 Hughes, Thomas P. 4  
 Hugus, Wright, Jr. 0  
 Hull, Elroy Adam 1  
 Hull, J. Frank 4  
 Hulse, James E. 0  
 Humphrey, Earl Lester, Jr. 4  
 Hunt, Charles Jackson, Jr. 1  
 Hunt, Lawrence E. 3  
 Hunt, William Bryce 9  
 Hunter, Eugene G., Jr. 2  
 Hunter, Jack W. 6 E  
 Huntley, Bobby Lee 0  
 Huntoon, Murray 6 E  
 Huntsberry, Charles Robert 2  
 Hurn, Baxter Carlisle Spec.  
 Hurst, Robert Grant 0  
 Hussey, William H. 7  
 Hutchins, Robert White 6  
 Hutson, Edward Dogulas 3  
 Hyatt, Edward 5  
 Ingham, Olin H. 1  
 Ingram, George Stephen 2  
 Ingwersen, Robert Starr 0  
 Insch, Paul H. 6  
 Ipock, John L. 2  
 Ira, Gordon Henry 2  
 Irlbacker, John Michael 6  
 Irvin, Glen F. 4  
 Irvine, Bruce D. 2  
 Irwin, Dwight M. 3  
 Irwin, William Paul 2  
 Isenhour, Dwight L. 5  
 Isley, Hugh Galloway, Jr. 2  
 Ivey, David Middleton 0  
 Jackson, Benjamin Taylor 2  
 Jackson, Ervin, Jr. 4  
 Jackson, Harold Mackenzie, II 6 E  
 Jackson, John J. 7  
 Jackson, Philip Wilford 6 E  
 Jackson, William H. 6  
 Jacobsen, M. Andre, Jr. 2  
 Jacokes, Paul Webb 5  
 Jakob, Walter Karl 2 E  
 James, Carl C. 3  
 James, Kenneth C. 6  
 James, William E. 2 E  
 Janatka, Joseph 6 E  
 Jarvis, Hallet W. 10  
 Jeffers, Robert Seeger 0  
 Jefferson, Arthur S. 2  
 Jenkins, John L. 4 E  
 Jenkins, Martin Edward 7  
 Andrews, N. C.  
 Spartanburg, S. C.  
 Richmond, Va.  
 Winston-Salem, N. C.  
 Toledo, Ohio  
 Reidsville, N. C.  
 Charlotte, N. C.  
 Danville, Va.  
 Sumter, S. C.  
 Wheeling, W. Va.  
 West Point Pleasant, N. J.  
 Charlotte, N. C.  
 Durham, N. C.  
 Sangerville, Maine  
 Pleasant Garden, N. C.  
 Pleasant Garden, N. C.  
 Lexington, N. C.  
 Kingsport, Tenn.  
 Durham, N. C.  
 Wadesboro, N. C.  
 Durham, N. C.  
 Winchester, Va.  
 Durham, N. C.  
 Durham, N. C.  
 Weaverville, N. C.  
 Winston-Salem, N. C.  
 Miami, Fla.  
 Asheville, N. C.  
 Concord, N. H.  
 Jacksonville, Fla.  
 Miami, Fla.  
 Tulsa, Okla.  
 Gritton, N. C.  
 Jacksonville, Fla.  
 Mamaroneck, N. Y.  
 Callahan, Fla.  
 Frankfort, Ky.  
 Charlotte, N. C.  
 Pittsburgh, Pa.  
 High Point, N. C.  
 Raleigh, N. C.  
 Charlotte, N. C.  
 Jacksonville, Fla.  
 Birmingham, Ala.  
 Charlotte, N. C.  
 Larchmont, N. Y.  
 Johnson City, N. Y.  
 Shreveport, La.  
 Plainfield, N. J.  
 Durham, N. C.  
 Roselle, N. J.  
 Raleigh, N. C.  
 Winterville, N. C.  
 Charleston, W. Va.  
 Berwyn, Ill.  
 Charleston, S. C.  
 Forest Hills, N. Y.  
 Rye, N. Y.  
 Charlotte, N. C.  
 Philadelphia, Pa.



Jennings, Bruce Temple	0	Orlando, Fla.
Jennings, Clark William	4	Orlando, Fla.
Jennings, William Beatty, Jr.	7	Fayetteville, N. C.
Jeske, John William	4	Westfield, N. J.
Johnson, Alfred Fletcher	0	Warrenton, Va.
Johnson, Bobby Lee	0	Mayodan, N. C.
Johnson, Charles B.	4	Portsmouth, Va.
Johnson, Thomas, Jr. Spec.		Red Springs, N. C.
Johnson, Clarence Anthony	2 E	Durham, N. C.
Johnson, David Dowdell	1	Baton Rouge, La.
Johnson, Edwin G.	4	Cedar Grove, N. J.
Johnson, Guy M., Jr.	6	Asheville, N. C.
Johnson, Harry Wallace, Jr.	2	Weldon, N. C.
Johnson, Kenneth Raymond	0	Pensacola, Fla.
Johnson, Lee	2	Weldon, N. C.
Johnson, Marshall Howard	6	Durham, N. C.
Johnson, Peter Grayson	0	Baldwin, N. Y.
Johnson, Peter Paul	2	Cranford, N. J.
Johnson, Ragnar Edwin	4	Charleston, S. C.
Johnson, Richard Salisbury	0	Pahokee, Fla.
Johnston, Bobby Conrad	2	Charlotte, N. C.
Johnston, Carroll Franklin	0	Parkersburg, N. C.
Johnston, Cyrus Conrad, Jr.	2	Mooresville, N. C.
Johnston, William David	0	Sackets Harbor, N. Y.
Jones, Carl L.	6	Laurinburg, N. C.
Jones, Charles Albert	2	Charlotte, N. C.
Jones, Charles David	4	Middletown, Ohio
Jones, Charles P.	4	Greenwood, S. C.
Jones, Darrell Shaw	4	Newark, Ohio
Jones, Douglas Johnson	2	Southport, N. C.
Jones, Edward Earl	6	Durham, N. C.
Jones, George P., III	7	High Point, N. C.
Jones, Harvey C.	3	Baltimore, Md.
Jones, Howard B.	4	Clearwater, Fla.
Jones, John Oscar	2	Saluda, S. C.
Jones, John Newton	0	Philadelphia, Pa.
Jones, John Robert	6	Washington, D. C.
Jones, Leonidas Merritt	0	Raleigh, N. C.
Jones, Loring Shaffer, Jr.	3	Pittsburgh, Pa.
Jones, Ray McMillan	0	Laurinburg, N. C.
Jones, Robert Garnett	7	Durham, N. C.
Jones, Robert Quince	2	Charleston, W. Va.
Jones, Simeon Broadus, Jr.	0	Hope Mills, N. C.
Jordan, Benjamin Everett, Jr.	4	Saxapahaw, N. C.
Jordan, Ernest Mansfield, Jr.	4 E	Raleigh, N. C.
Jordan, Samuel Kelly	7	Lynchburg, Va.
Jordan, Verner Calvin	0	Buenos Aires, Argentina
Jouannet, Francis Lionel, Jr.	5	Shaker Heights, Ohio
Joyce, William O.	0	New Rochelle, N. Y.
Joyner, Edward Madison	0	Richmond, Va.
Jung, David E.	4	Snyder, N. Y.
Jurew, John C., Jr.	2	Bloomfield, N. J.
Kaelin, William George	1	East Rockaway, N. Y.
Kalevas, Bill Arestedes	0	Rockingham, N. C.
Kanipe, James F.	4 E	Asheville, N. C.
Kanoy, Robert C., Jr.	6	Durham, N. C.
Karl, Lawrence O.	2	Ford City, Pa.
Karmatz, Franklin N.	7	Highland Park, N. J.
Karmazin, John	6	Irwin, Pa.
Karukstis, Paul	8	St. James, N. Y.

- Kastrinelis, Peter L. 2 E  
 Katzenmeyer, William G. 2  
 Kaus, Tyler Garretson 6  
 Kearns, Tom Johnston, Jr. 6  
 Keck, Charles, Jr. 8  
 Keebler, Ben Jennings 0  
 Kelly, Harry Finn, Jr. 0  
 Kelly, Walter Richard, Jr. 2  
 Keevan, Thomas John 8  
 Keith, Hudie C., Jr. 6 E  
 Keith, Joseph Vern 0  
 Kellam, Floyd Eaton 4  
 Kellam, Frank Wallace, Jr. 4  
 Keller, Harry LeRoy 6  
 Kempton, George Bradfield 2  
 Kenaston, Robert Allen 2 E  
 Kenaston, Thomas Corwin, Jr. 4  
 Kenefick, John M. 7 E  
 Kenion, Eugene Grant 2  
 Kennard, Francis M., Jr. 2  
 Kennedy, Horton Parmelee, Jr. 0  
 Kennedy, James Arthur 2  
 Kennedy, Joseph Everett, Jr. 0  
 Kennedy, Richard M. 2  
 Kennedy, Theodore Clifford 0  
 Kennerly, Clarence M. 4 E  
 Kent, Alfred H. 4  
 Kent, Horace Smith 0  
 Kersey, James Stuart 2  
 Keye, Paul Faylor 4  
 Keyes, Robert Spencer 2  
 Keziah, Sanford Perry 0  
 Kiely, Thomas M. 6  
 Kiger, Willie M. 0  
 Kilcher, James Conrad 2  
 Kime, Richard Charles 0  
 King, Arthur Bruce 0  
 King, Leonard E. Spec.  
 King, Robert David 2  
 King, William Payne 2  
 Kingery, Robert E. 4  
 Kinneman, Robert Eugene, Jr. 0  
 Kinney, Donald Shupert 4  
 Kirby, Jack O. 3  
 Kirby, James Chasey, Jr. 0  
 Kirchofer, Roger B. 3  
 Kirk, Robert D. 4  
 Kirkland, William Bryant, Jr. 2  
 Kirkland, William H. 6 E  
 Kirsh, Herbert 6  
 Kirsh, Marvin 2  
 Kistler, William H. 2  
 Klees, Robert Edwin 2  
 Klein, Lewis Philip, Jr. 2  
 Knabe, John Richard 4 E  
 Knabe, Lloyd Condon, Jr. 6 E  
 Knaepen, Henry Joseph 2 E  
 Knight, John W. 6  
 Knight, Thomas G. 6 E  
 Knipmeyer, Arlie Charles 4  
 Framingham, Mass.  
 Akron, Ohio  
 Rye, N. Y.  
 High Point, N. C.  
 New York, N. Y.  
 Greeneville, Tenn.  
 Norlina, N. C.  
 Greensboro, N. C.  
 Rego Park, N. Y.  
 Durham, N. C.  
 Havelock, N. C.  
 Princess Anne, Va.  
 Princess Anne, Va.  
 Raleigh, N. C.  
 Winston-Salem, N.C.  
 Cocoa, Fla.  
 Cocoa, Fla.  
 St. Petersburg, Fla.  
 Hillsboro, N. C.  
 Rising Sun, Md.  
 Paris, France  
 Pittsburgh, Pa.  
 Durham, N. C.  
 Kansas City, Mo.  
 Front Royal, Va.  
 High Point, N. C.  
 Winter Park, Fla.  
 Mesa, Ariz.  
 Durham, N. C.  
 Beverly Hills, Calif.  
 Birmingham, Mich.  
 High Point, N. C.  
 Torrington, Conn.  
 Durham, N. C.  
 Ashland, Ohio  
 Scarsdale, N. Y.  
 Chagrin Falls, Ohio  
 Lexington, N. C.  
 Washington, D. C.  
 Memphis, Tenn.  
 White Plains, N. Y.  
 Greenfield, Ind.  
 Winston-Salem, N. C.  
 Miami, Fla.  
 Long Branch, N. J.  
 Raleigh, N. C.  
 Tupelo, Miss.  
 Durham, N. C.  
 Durham, N. C.  
 Clover, S. C.  
 Clover, S. C.  
 Creedmoor, N. C.  
 Tuckahoe, N. Y.  
 Philadelphia, Pa.  
 Catonsville, Md.  
 Catonsville, Md.  
 Ridgewood, N. J.  
 Charlottesville, Va.  
 Tampa, Fla.  
 Bellflower, Mo.

Knoess, Allan Frederick 0  
 Knott, Gerald Wesley 6  
 Knotts, Benjamin Franklin, Jr. 4  
 Knotts, Don Morton 1  
 Knotts, James Terrell 5  
 Kobzina, Arnold James 0  
 Koestline, Charles Norman 2  
 Kohl, Jack William 2  
 Komlosi, Eugene J. 2 E  
 Korbel, Edward Joseph 2  
 Koval, George J. 6  
 Kozam, Robert Leslie 0  
 Kramme, Paul Edgar, Jr. 7  
 Krauss, Edward 6  
 Krayner, Alfred Carl 0  
 Kreider, Kenneth Richard 0  
 Krieger, Walter F. 5  
 Kritzer, Richard G. 6  
 Krouk, Bernard Benjamin 4  
 Krout, William Alfred 4  
 Kulpan, James Neil 0  
 Kuman, Arthur 4  
 Kuman, Herbert 4  
 Kunkle, Harold W. 0  
 Kurzrock, Warren Walter 0  
 Kyle, Harvey Lewis 3  
 Ladshaw, Thomas Gordon 6 E  
 Lanahan, Hugh Carroll 0  
 Landau, Edward Jay 2  
 Landis, Harold Hamilton 2 E  
 Landis, Richard V. 7  
 Landon, Horace Gordon 2  
 Landrum, Clinton Terrell, Jr. 2  
 Lane, Benjamin Forrest 2  
 Lane, Rembrandt P. 3  
 Laney, Ernest J. 7  
 Lang, Frank Alexander, Jr. 0  
 Langevin, John Edward 0  
 Lanning, Jeremy C. 2  
 Lanning, Richard L. 2 E  
 Lantz, William McGowan, II 6  
 Lapp, Robert E. 6  
 Larabee, Leo 4  
 Lareau, Ernest W. 6 E  
 Lark, William Frank 4 E  
 Larner, Edward L. 6 E  
 Larson, Paul Ernest 2  
 LaSalle, Robert Martin 2  
 Lasley, Donald G. 5  
 Lasseter, Jack Kinney 0  
 Latimer, Richard Lee 0  
 Latkowski, Norbert Leon Spec.  
 Latta, Roderick Alan 0  
 Lattimore, Jasper Bynum 1  
 Lau, John Leslie 7  
 Lauffer, Richard A. 6  
 Laughlin, Curtis Lee 0  
 Lauter, Frederic Martin 0  
 Lawson, Herbert Margerum 0  
 Lawson, John Craddock, Jr. 6

Glen Cove, N. Y.  
 Oxford, N. C.  
 Plant City, Fla.  
 Albemarle, N. C.  
 Albemarle, N. C.  
 Riverside, Ill.  
 Albemarle, N. C.  
 Cincinnati, Ohio  
 Lorain, Ohio  
 Dougleston, N. Y.  
 Washington, D. C.  
 Union City, N. J.  
 Monroeville, N. J.  
 Hollis, N. Y.  
 St. Petersburg, Fla.  
 Palmyra, Pa.  
 Scotch Plains, N. J.  
 Indiana, Pa.  
 Newark, N. J.  
 Covington, Ky.  
 Norfolk, Va.  
 New York, N. Y.  
 New York, N. Y.  
 Elyria, Ohio  
 Englewood, N. J.  
 Glendale, Calif.  
 Spartanburg, S. C.  
 Charlottesville, Va.  
 Mt. Vernon, N. Y.  
 New Holland, Pa.  
 New Holland, Pa.  
 Elden, N. Y.  
 Palmyra, Pa.  
 Mullins, S. C.  
 Washington, D. C.  
 Daytona Beach, Fla.  
 Ft. Lauderdale, Fla.  
 Lawrence, Mass.  
 Clinton, N. C.  
 Trenton, N. J.  
 Elmira, N. Y.  
 Irvington, N. J.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Hillsboro, N. C.  
 Snow Hill, Md.  
 Emporium, Pa.  
 Canton, Ohio  
 Walkertown, N. C.  
 Macon, Ga.  
 Bethesda, Md.  
 Chicago, Ill.  
 Niagara Falls, N. Y.  
 Lumberton, N. C.  
 Port-of-Spain, Trinidad  
 Passaic, N. J.  
 Greensboro, N. C.  
 Glen Rock, N. J.  
 Erwin, Tenn.  
 Durham, N. C.

- Lawton, William S. 6 E  
 Leake, Medford 4  
 Lee, Herbert M. 4 E  
 Lee, James Edward 2  
 Lee, John Marshall, Jr. 2  
 Lee, Laurence F. 6  
 Lee, Pope Matthews 0  
 Lee, Raymond William, Jr. 2  
 Lee, Robert Emil 3  
 Lefler, Bayne Wesley, Jr. 0  
 LeGore, Norman C. 2  
 Lehman, John Gress 0  
 Lehman, Maurice Robert 0  
 Leitner, Paul R. 4  
 Lenhardt, Roger Feth 0  
 Leonard, Henry Siggins, Jr. 0  
 Leonard, Robert P. 6  
 LeValley, Victor R., Jr. 6  
 Levin, Burton E. 7  
 Levin, David Harold 7  
 Levy, Foster LeRoy 4  
 Levy, Irving Hirsh 1  
 Lewis, Frank E. 0  
 Lewis, James Kelly 6  
 Lewis, Robert Dobbins 2  
 Lillie, George Albert 4 E  
 Linaweaver, Paul Glenwood, Jr. 2  
 Lindgren, Jack K. 6  
 Lindsay, Carl H. 4  
 Lindsey, John Morton 2  
 Lindstrom, Malcolm Stuart 0  
 Lindsey, Willis Callaway, Jr. 5  
 Lineberger, Henry Otis 4  
 Lineberger, James Ruffin 1  
 Lineberry, Joseph L. 6  
 Link, William Green 2  
 Linkous, Walter Witten 6 E  
 Linn, Bruce Oscar 0  
 Linville, Walter S., Jr. 0  
 Lipscomb, George W. 6 E  
 Lipscomb, Thomas S. 4 E  
 Lipton, Harold Pans 0  
 Little, James Woodrow 2  
 Littleton, John Breckenridge 2  
 Lively, Thomas T. 4  
 Livingston, John E. 8  
 Llenza, Charles Federico 0  
 Lloyd, Kenneth Earl Cooper 0  
 Lloyd, Leonard Walter 3  
 Loehr, John Lyle 1  
 Lonergan, Robert Colnon, Jr. 4  
 Long, Charles Abner, Jr. 2  
 Long, John C. 6  
 Longley, James Benjamin, Jr. 0  
 Loomis, Robert Duane 5  
 Lord, Melvin Henry 2 E  
 Loser, Theodore Charles 4 E  
 Lott, Charles Howell 0  
 Lott, John Edwin 0  
 Loub, Arthur Frederick 0  
 St. Petersburg, Fla.  
 Tupelo, Miss.  
 Baldwin, N. Y.  
 Durham, N. C.  
 Walterboro, S. C.  
 Jacksonville, Fla.  
 Asheville, N. C.  
 Providence Forge, Va.  
 Durham, N. C.  
 Cherryville, N. C.  
 Vineland, N. J.  
 Lockhaven, Pa.  
 New York, N. Y.  
 Winstboro, S. C.  
 Washington, D. C.  
 Durham, N. C.  
 Cranford, N. J.  
 Long Branch, N. J.  
 Fiskill, N. Y.  
 Pensacola, Fla.  
 Birmingham, Ala.  
 Birmingham, Ala.  
 Bailey, N. C.  
 Mt. Holly, N. C.  
 Asheville, N. C.  
 Tome River, N. J.  
 Deale, Md.  
 St. Petersburg, Fla.  
 Burlington, N. C.  
 Montrose, N. Y.  
 Oradell, N. J.  
 Washington, Ga.  
 Raleigh, N. C.  
 Raleigh, N. C.  
 Staley, N. C.  
 Durham, N. C.  
 Havre de Grace, Md.  
 Woodhaven, N. Y.  
 Kernersville, N. C.  
 Durham, N. C.  
 Angier, N. C.  
 Logn Island City, N. Y.  
 Rockingham, N. C.  
 Greenbelt, Md.  
 Atlanta, Ga.  
 Rutledge, Pa.  
 Hato Rey, Puerto Rico  
 Durham, N. C.  
 Durham, N. C.  
 Rochester, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 Hamden, Conn.  
 Baltimore, Md.  
 Plain City, Ohio  
 West Caldwell, N. J.  
 Jonestown, Pa.  
 Plainfield, N. J.  
 Kansas City, Mo.  
 Amityville, N. Y.



Lounsbury, Richard Earl	2	Seymour, Conn.
Love, Thomas A.	4	Durham, N. C.
Lowe, Elwyn H.	2 E	Portsmouth, Va.
Lowe, Gentry H.	3	Portsmouth, Va.
Lowenthal, Daniel Abraham, Jr.	0	Baltimore, Md.
Lowman, Henry Harris	0	Radford, Va.
Lowndes, Charles L. B., Jr.	2	Durham, N. C.
Lucas, Charles D.	2 E	Matthews, N. C.
Lucas, Charles F.	3	Nashville, Tenn.
Lucas, David Michael	2 E	Matthews, N. C.
Lucas, Marvin W.	6 E	Lucama, N. C.
Lucas, Robert Theodore, Jr.	4	Shreveport, La.
Lucas, Swain Seaton	4 E	Durham, N. C.
Lucas, William Reed	0	Nashville, Tenn.
Ludlum, Warren O.	6	Batesburg, S. C.
Lugar, Ashby G., Jr.	0	Oceana, W. Va.
Lunsford, Thomas V.	6	Haines City, Fla.
Lupton, Frederick A., Jr.	6	Durham, N. C.
Lustig, George A.	1	Bronxville, N. Y.
Lutton, Gerald Clark	0	Harmony, Pa.
Lutz, William Austell	4	Shelby, N. C.
Lyle, Bert E.	4	Tupelo, Miss.
Lynch, Edward Carlin	2	Somerset, Mass.
Lynch, George Cotchett	0	Anchorage, Alaska
Lynch, Hal L., Jr.	2	Jacksonville, Fla.
Lynch, Luby R., Jr.	6	Wilmington, N. C.
Lynch, Walter Kenneth	0	Saxapahaw, N. C.
Lyon, Arthur S.	4	Durham, N. C.
Lyons, George W.	6 E	Durham, N. C.
Lyons, Jerold Baar	0	Englewood, N. J.
Lyons, Pat James	3	Norfolk, Va.
McAdams, John L.	4	Rocky Mount, N. C.
McAlduff, Thomas P.	8	Garden City, N. Y.
McAllister, Douglas Howard	4	Durham, N. C.
McAnerney, Marshall Joseph, III	0	Plandome, N. Y.
McCain, Fillmore Hugh, Jr.	2	Franklin, Va.
McCain, William Warren	0	Elizabeth City, N. C.
McCall, Ben Waring	0	Jacksonville, Fla.
McCall, Loyd Henry, Jr.	2 E	Charlotte, N. C.
McCarthy, Edwin J.	7	Philadelphia, Pa.
McCauley, Thomas H.	4	Durham, N. C.
McClamroch, William Porter	Spec.	Greensboro, N. C.
McClannan, Ralph Leslie	0	Norfolk, Va.
McColley, Charles Stanton	4	Rock Hill, S. C.
McConnell, Arthur Weir	2 E	Birmingham, Ala.
McConnell, Elliott Bonnell	2	Cleveland, Ohio
McConnell, John William	6	Ashland, Pa.
McCormick, Charles P., Jr.	1	Baltimore, Md.
McCowen, George Franklin	0	Macon, Ga.
McCraw, Ray Clifton	2	Glen Rock, N. J.
McCullen, Donald	4	Maplewood, N. J.
McCusker, Edward F.	6	Endicott, N. Y.
McDonald, Duard Ray	0	Oklmulgee, Okla.
McDonald, Joseph Frank	6 E	Brooklyn, N. Y.
McDonald, Keith Dooley	0	Alexandria, Va.
McDonald, Neil Jarvis	Spec.	Anderson, S. C.
McDonald, Robert Kyle	2	Gastonia, N. C.
McDougald, Robert Eubanks	2	Bayside, N. Y.
McDowell, Clyde Harrison	5	High Point, N. C.
McEntyre, Hubert	8	Tryon, N. C.

McFadden, Alexander Bratton	4	Rock Hill, S. C.
McFadden, Robert Lawrence	2	Rock Hill, S. C.
McGehee, Clifford Graham	4	Jacksonville, Fla.
McGeough, Robert Saunders	0	Chardon, Ohio
McGerity, Joseph Loehr	4	West Palm Beach, Fla.
McGill, Ira Leon, Jr.	1	Laurinburg, N. C.
McGowan, Donald Martin	6	Cleveland, Ohio
McGranahan, Fred Nelson	2	Durham, N. C.
McGranahan, William Scott	2	Durham, N. C.
McGuire, John Joseph	0	Miles City, Mont.
McGuire, Robert Duke	2	Asheville, N. C.
McGuire, Victor Virgil, Jr.	4	Asheville, N. C.
McIver, Douglas C.	2 E	Winston-Salem, N. C.
McKay, James Alexander, Jr.	2	Asheville, N. C.
McKee, Charles Albert	0	Laurel, Miss.
McKeever, Earle Alexander	0	Johnstown, Pa.
McKellar, John Clifton	2	Orlando, Fla.
McKelvie, Milton James	2 E	Kings Mountain, N. C.
McKenzie, Claude Fleatus	0	Athens, Tenn.
McKenzie, Thomas M.	7	Memphis, Tenn.
McKeown, Beverly Hicks	9	Memphis, Tenn.
McKeown, Earle Wayne	2	Nashua, N. H.
McKittrick, Charles E.	4	Scarsdale, N. Y.
McLaulin, Johnnie C., Jr.	2	Danville, Va.
McLean, Earl Daniel, Jr.	5	Columbia, Miss.
McLean, Howard Jones	4 E	Tampa, Fla.
McLean, Robert Davidson	0	Tampa, Fla.
McLean, William Campbell, Jr.	7	Tampa, Fla.
McLemore, Ralph Stuart	0	Macon, Ga.
McLendon, Preston Alexander	4	Washington, D. C.
McLennan, Louis Watson	2	Atlanta, Ga.
McLeod, David E.	0	Tenafly, N. J.
McLeod, Henry L.	7	Johns, N. C.
McLeod, Leroy L.	2	Durham, N. C.
McLeod, Robert Franklin	2	Southern Pines, N. C.
McLeod, Thomas Bragg	7	Broadway, N. C.
McMahon, James Gillman, Jr.	2	Wilmington, Del.
McMahon, William Wallace	6 E	St. Petersburg, Fla.
McMaster, Fitz-John Creighton	2	Winnboro, S. C.
McMasters, Lewis L.	4	St. Petersburg, Fla.
McMillan, Marcus	0	Larchmont, N. Y.
McMullan, Philip Sidney, Jr.	0	Edenton, N. C.
McNair, Barak	0	Lakeland, Ga.
McNair, Conrad Buchanan	0	Macon, Ga.
McNamara, Thomas Neal	0	Winchester, Mass.
McNeely, Irwin Hollar	7	Morganton, N. C.
McNeer, Fred A.	4	Durham, N. C.
McRae, William Davis	2 E	DeLand, Fla.
Maas, John Peter	7	Georgetown, Conn.
Maass, William Harold	2 E	Glen Rock, N. J.
Mabry, Edward B.	4	Greensboro, N. C.
Mabry, Henry Filmore	2	Greensboro, N. C.
MacDonald, Alan Gray	2 E	Old Greenwich, Conn.
MacDonald, Weldon B.	4	Haverhill, N. H.
MacDowell, Frederick, Jr.	4	Newburgh, N. Y.
MacFarlane, John Granger	2	Chevy Chase, Md.
MacFeiggan, Jack Murray	7	Elmira, N. Y.
Machamer, Richard Frederick	2 E	Johnson City, Tenn.
Machek, Andrew	3	Durham, N. C.
Macht, Stuart Martin	2 E	Baltimore, Md.

Mack, Leslie Eugene 1  
 Maddox, Houston Noble 0  
 Magaw, Malcolm 4  
 Magurean, Nick 1  
 Major, Howard L. 4 E  
 Makris, John Evangelus 0  
 Malone, Robert William 0  
 Mallonee, Richard C. 6 E  
 Malyniak, Joseph 0  
 Manegan, Warren R. 1  
 Mangum, Lawrence D. 5  
 Mann, Walter Robert 6  
 Manning, Kenneth Richard 7  
 Marjenhoff, August John 2  
 Markham, John Leslie 6  
 Marlow, Ernest Grant 6  
 Marple, Thomas Pankey 0  
 Marshall, Ted Hall 7  
 Martens, Harry A. 0  
 Martin, David Cooper 0  
 Martin, James Arthur, Jr. 0  
 Martin, John Daniel 2 E  
 Martin, Linville Kerr, Jr. 0  
 Martin, Richard Charles 3  
 Martin, Robert Bruce, Jr. 0  
 Martin, William Grinalds, Jr. 3  
 Martinelli, William Joseph 4  
 Marx, Paul H. 4  
 Mason, Jack Wickliff 2  
 Mason, Read 6  
 Mason, William Albert 7  
 Massey, James Andrew, Jr. 0  
 Massey, William Everard, Jr. 4  
 Masteller, Daryl Edwin 2  
 Mathers, Robert Wesley 3  
 Matheson, James Leonard 2  
 Matlock, Jack Faust 3  
 Matthews, Charles Stark 2  
 Matton, David Jeffreys 2  
 Matton, Lawrence C. 4  
 Mattox, Huitt Everett, Jr. 2  
 Mauney, Edgar Alonzo, Jr. 2  
 Mauney, Eugene S. 4  
 Mauney, William Shayle 2  
 Maury, Carlos H. 0  
 Maury, Ernest 6  
 Maxwell, John Wallace 2  
 May, Cecil Dalton 0  
 Mayo, Jesse C. 5  
 Meacham, Hudson P., Jr. 6 E  
 Mead, D. Richard, Jr. 0  
 Meara, Robert F. 7  
 Mebane, David P. 7  
 Mebane, Giles Yancey 2  
 Medford, Tom H. 1  
 Meekins, James Claiborne 4 E  
 Meier, Charles Donald 4  
 Melton, Nichols J. 2 E  
 Melton, Robert Allen 2  
 Melton, Robert W. 6

Washington, D. C.  
 Seven Springs, N. C.  
 Oregon, Ill.  
 Gary, Ind.  
 Pensacola, Fla.  
 Newark, Ohio  
 Park Ridge, Ill.  
 Ft. Bragg, N. C.  
 Nesquehoning, Pa.  
 New York, N. Y.  
 Durham, N. C.  
 Tallahassee, Fla.  
 Durham, N. C.  
 Charleston, S. C.  
 St. Petersburg, Fla.  
 Front Royal, Va.  
 Haddonfield, N. J.  
 Camden, S. C.  
 Bay City, Mich.  
 York, Pa.  
 Oak Hill, W. Va.  
 Chatham, N. J.  
 Winston-Salem, N. C.  
 Brooklyn, N. Y.  
 Tenafly, N. J.  
 Portsmouth, Va.  
 Covington, Va.  
 Atlanta, Ga.  
 Burbank, Calif.  
 Cleveland, Ohio  
 Chicago, Ill.  
 Princeton, N. C.  
 Charlotte, N. C.  
 Asheboro, N. C.  
 Goulds, Fla.  
 Mount Gilead, N. C.  
 Greensboro, N. C.  
 Durham, N. C.  
 Louisville, Ky.  
 High Point, N. C.  
 Bluefield, W. Va.  
 Lincolnton, N. C.  
 Wilmington, N. C.  
 Maiden, N. C.  
 Caracas, Venezuela  
 Caracas, Venezuela  
 Bethesda, Md.  
 New Bern, N. C.  
 Rocky Mount, N. C.  
 Orlando, Fla.  
 Miami Beach, Fla.  
 Glen Rock, N. J.  
 Fayetteville, N. C.  
 Raleigh, N. C.  
 Waynesville, N. C.  
 High Point, N. C.  
 Evanston, Ill.  
 Durham, N. C.  
 Wilmington, N. C.  
 Brevard, N. C.

- Memmoli, Richard Otto 0  
 Mendenhall, John Henry 5  
 Menken, Kenneth Andrews 0  
 Meredith, Michael George 0  
 Meredith, Winfield Scott 5  
 Merlin, Howard Robert 2 E  
 Merritt, Glen Carl 2 E  
 Merritt, William Duke 5  
 Merwarth, Charles Richard 0  
 Metcalf, Boyd H. 5  
 Meuche, Leon T. 5  
 Meyer, Gerhard H. 3  
 Miazza, Martin Flood 0  
 Michael, Herman L., Jr. 2 E  
 Michalek, Donald Richard 0  
 Mickey, John S. 10  
 Mickel, Andrew 4 E  
 Middlesworth, Chester Paul 7  
 Middleton, David John 4 \*  
 Midgette, Robert Bryant 0  
 Midgett, Peleg D. 7  
 Millard, Robert Fredrick 1  
 Miller, Abraham Stanley, Jr. 0  
 Miller, David Edmond 0  
 Miller, Fred James 4  
 Miller, Jack Upshaw 2  
 Miller, John P. K., III 2  
 Miller, John Raymond 4  
 Miller, Marvin Vincent 4 E  
 Miller, Neal Donald 2  
 Miller, Paul Joseph 2 E  
 Miller, Robert Allen 0  
 Miller, Robert Wesley 4  
 Miller, Ulrick Ray, Jr. 4  
 Miller, Vaughn, Jr. 2  
 Miller, Victor John 6  
 Miller, William Francis 6 E  
 Miller, William James 6  
 Milstead, William Malcolm 2  
 Mims, Dewey Sexton 4  
 Mincey, James H. 4 E  
 Miner, Richard Warren 6  
 Mingus, Henry Sigmon 4 E  
 Minick, John Ervin 1  
 Minnotte, James Owen 6  
 Minton, Richard R. 6 E  
 Mitchell, Billy Pender 0  
 Mitchell, David C. 0  
 Mitchell, Donald Walcott 0  
 Mitchell, George S. 4  
 Mitchell, Monroe Sellers 2 E  
 Mitchell, Robert Kell 4  
 Mitchell, William Edward 2  
 Mitchell, William Hoyle 4  
 Moehlenkamp, Fred G. 6  
 Moeller, Robert Henry, Jr. 4  
 Montague, Richard Beasley 6  
 Montgomery, John D. 5  
 Montross, Franklin, III 0  
 Monts, Jack William 2  
 Jamaica, N. Y.  
 Orlando, Fla.  
 Loch Arbour, N. J.  
 Bethesda, Md.  
 Jamestown, N. Y.  
 Brooklyn, N. Y.  
 Greensboro, N. C.  
 Durham, N. C.  
 Cranford, N. J.  
 Chevy Chase, Md.  
 Dayton, Ohio  
 Flushing, N. Y.  
 Long Beach, Miss.  
 Frederick, Md.  
 Westfield, Mass.  
 Mount Airy, N. C.  
 Winston-Salem, N. C.  
 Statesville, N. C.  
 Warsaw, N. C.  
 Raleigh, N. C.  
 Engelhard, N. C.  
 Bristol, Tenn.  
 Belleville, N. J.  
 Elizabeth City, N. C.  
 Burlington, N. C.  
 Coral Gables, Fla.  
 Pittsburgh, Pa.  
 Wilson, N. C.  
 Durham, N. C.  
 Hummelstown, Pa.  
 Baltimore, Md.  
 Key West, Fla.  
 Mountain Lakes, N. J.  
 Salisbury, N. C.  
 Lookout Mountain, Tenn.  
 Virginia Beach, Va.  
 Youngstown, Ohio  
 Winnsboro, S. C.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Conneaut, Ohio  
 Durham, N. C.  
 Durham, N. C.  
 Pittsburgh, Pa.  
 New Canton, Ill.  
 Fairmont, N. C.  
 Detroit, Mich.  
 Summit, N. J.  
 Crewe, Va.  
 Oreland, Pa.  
 Cary, N. C.  
 Lynbrook, N. Y.  
 Henderson, N. C.  
 Wyandotte, Mich.  
 Charlotte, N. C.  
 Oxford, N. C.  
 Miami, Fla.  
 Chappaqua, N. Y.  
 Miami Springs, Fla.



Moor, Marion McLemore	0	Greenwood, Miss.
Moore, Burt Hitchcock	2	Raleigh, N. C.
Moore, Donald R.	7	Ridley Park, Pa.
Moore, Edwin G., II	7	Durham, N. C.
Moore, Nelson Rist, Jr.	5	Vanderbilt, Pa.
Moore, William Philip, Jr.	6 E	Greenville, N. C.
Moore, William Yelton	2 E	Winston-Salem, N. C.
Moorhead, Sam R.	4	Anderson, S. C.
Moravec, Edward Martin	2	West Bridgewater, Pa.
Morgan, Alton Carroll	8	Winston-Salem, N. C.
Morgan, Everette L.	5	Salisbury, N. C.
Morgan, Joseph P.	6 E	New York, N. Y.
Morgan, Millard F., Jr.	0	Bailey, N. C.
Morgan, Olen Eben	6	Albemarle, N. C.
Morgan, Thomas E., Jr.	2	Neptune Beach, Fla.
Moriarty, Peter Manx	2	Annapolis, Md.
Morris, Howard F.	5	Greensboro, N. C.
Morris, Thomas W.	2	Durham, N. C.
Morrison, Angus Roscoe, Jr.	0	Concord, N. C.
Morton, Gerald Ketchum	0	Wilmington, N. C.
Moser, Daniel Boone	2	Gastonia, N. C.
Moser, William Reynolds	3	Gastonia, N. C.
Mosier, Edward Russell	4	Uniontown, Pa.
Mostellar, Henry Curtis, Jr.	0	Mobile, Ala.
Mougey, Paul Howard	2	Chevy Chase, Md.
Mounie, John Robert	2	Portsmouth, Va.
Mousmoules, John	4	Durham, N. C.
Moylan, Edward Newcomb	8	Miami, Fla.
Mueller, John George	0	Okmulgee, Okla.
Mulligan, Alla Purse, Jr.	7	Greensboro, N. C.
Mullin, James L.	4 E	Morristown, Pa.
Mullinax, Perry Franklin	0	Richmond, Va.
Mullinix, Howard Earl	4	Round Bay, Md.
Mundy, Elbert Johnston, Jr.	2	Jacksonville, Fla.
Munies, Richard Earl	0	Teaneck, N. J.
Murph, Daniel Shuford, Jr.	2 E	Washington, D. C.
Murphy, Robert Edward	0	Spencerport, N. Y.
Murphy, William Carl	6	Salisbury, N. C.
Murray, John Kevin	7	Elmhurst, N. Y.
Murray, John Poole	2	Camden, N. J.
Murray, Malcolm Gibson, Jr.	0	Ellwood City, Pa.
Musser, Robert L.	4	Salem Ohio
Myers, Duane Willard	0	Brookville, Pa.
Myers, John E.	2 E	Montclair, N. J.
Myers, William C.	4	Williamston, N. C.
Mote, William E.	1	Hapeville, Ga.
Nabors, James Joseph	2	Winfield, Ala.
Nabow, Stanley E.	6 E	Charlotte, N. C.
Nania, Frank	2	Middletown, N. Y.
Napier, Wallace Lee	8	Durham, N. C.
Naylor, William C.	3	Leonardtown, Md.
Nayor, Edward Joseph	0	Bayonne, N. J.
Neal, Charles Bodine, III	2	Millville, N. J.
Neal, Henry Douglas	0	Pee Dee, N. C.
Neal, Phil H., Jr.	4	Birmingham, Ala.
Neal, Ralph John	0	Durham, N. C.
Needham, George Richard	0	Conneaut, Ohio
Neely, Edward Rex, Jr.	4	Atlanta, Ga.
Neely, William B.	4 E	High Point, N. C.
Nelson, Donald Palmer	6	Pinehurst, N. C.

- Nelson, Merlyn Alfred 2  
 Nelson, Richard Copeland 0  
 Nelson, Roland Hill 6  
 Nelson, Ronald Prescott 0  
 Nelson, William Edward 6  
 Nesbit, Charles Lovette 0  
 Nesslinger, Ralph O. 0  
 Newcomb, William Rodes 4  
 Newell, Bruce, Jr. 6  
 Newhouse, Wilfred J. 4  
 Newman, Edmund Henry 3 E  
 Newman, Ernest G. Spec.  
 Newman, Francis Wesley 7  
 Newman, Marvin Jerome 4 E  
 Newman, Robert Loyd 4  
 Newton, Robert Julius, Jr. 6  
 Newton, Walter C. 2 E  
 Nial, Thomas Louis 0  
 Nichol, Robert J. 5  
 Nichols, Francis Alexander 0  
 Nichols, John Livingstone 0  
 Nichols, Robert Hill 7  
 Nicholson, James Lloyd, Jr. 2  
 Nicholson, William Edward 2  
 Nickerson, Charles A. 6  
 Nidermaier, Joe M. 0  
 Niemierzycki, Eugene John 4  
 Ninos, George Stephen 7,  
 Nixon, Edward Calvert 0  
 Noel, William Lee 0  
 Noell, Algernon S., Jr. 2 E  
 Noggle, Burl Lee 2  
 Nolan, Cornelius P. 1  
 Nolan, Virgil A. 6  
 Norris, Earl J. 6 E  
 Northam, Richard Alan 2  
 Norton, Zane Grey 6  
 Norwood, Olin Watson, Jr. 1  
 Norwood, Wilkins 6  
 Novick, Marshall Irwin 2  
 Null, Richard Bowen 6  
 Nunn, Delmas Coleman, Jr. 2  
 Nunn, Roland Cicero 0  
 Nuttle, Elbert Ray, Jr. 4 E  
 Oakley, Eugene C., Jr. 0  
 Obarr, Frederick C. 2  
 Obarrio, Gabriel R. 1  
 Obarrio, Rodolfo de 2 E  
 O'Brien, Donald Quinby 6  
 O'Donovan, Denis Leo 0  
 Oenbrink, Robert 7  
 Oglukian, Raymond Levon 0  
 O'Leary, James J. 4  
 Olive, Ryland W., Jr. 6 E  
 Oliver, Frank Vern 0  
 Oliver, Manton M. 0  
 Olivera, Hugo V. 0  
 Ollen, Walter George 7  
 O'Mansky, Samuel Isaac 0  
 Ormand, William Leon 0  
 Durham, N. C.  
 Jarratt, Va.  
 Jarratt, Va.  
 Longmeadow, Mass.  
 Philadelphia, Pa.  
 Pleasant Garden, N. C.  
 Staten Island, N. Y.  
 Huntington, W. Va.  
 Roxboro, N. C.  
 Rutherford, N. J.  
 Irvington, N. J.  
 Pensacola, Fla.  
 Leaksville, N. C.  
 Brooklyn, N. Y.  
 Leaksville, N. C.  
 Greenville, S. C.  
 Durham, N. C.  
 Ft. Lauderdale, Fla.  
 St. Petersburg, Fla.  
 Woodbridge, N. J.  
 Durham, N. C.  
 Durham, N. C.  
 Raleigh, N. C.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Kingsport, Tenn.  
 New Britain, Conn.  
 Lockport, N. Y.  
 Menges Mills, Pa.  
 Birmingham, Ala.  
 Durham, N. C.  
 Morganton, N. C.  
 South Orange, N. J.  
 Rome, Ga.  
 Durham, N. C.  
 Wilmington, Del.  
 Raeford, N. C.  
 Jasper, Fla.  
 Greenville, S. C.  
 Winchester, Va.  
 Gettysburg, Pa.  
 Atlanta, Ga.  
 Miami, Fla.  
 Baltimore, Md.  
 Durham, N. C.  
 Garden Grove, Calif.  
 Balboa, Canal Zone  
 Balboa, Canal Zone  
 Maplewood, N. J.  
 South Miami, Fla.  
 New Albany, Ind.  
 Charlotte, N. C.  
 New Brunswick, N. J.  
 Charlotte, N. C.  
 Palatka, Fla.  
 Reidsville, N. C.  
 Havana, Cuba  
 Jamaica, N. Y.  
 Leaksville, N. C.  
 Bessemer City, N. C.

Ornoff, Benjamin 2 E  
 Orr, Harry Allen 2  
 Ortolf, Karl George 5  
 Orzano, Joseph Ernest 2  
 Orzano, Randel M. 2  
 Orzech, Edward G. 4  
 Osborn, Robert Emerson 1  
 Osborne, James Nelson 4 E  
 Osborne, John Coughlin 7  
 Osborne, William Norris 0  
 O'Steen, Arthur Marion 0  
 Oster, Howard Stanton, Jr. 2  
 Otis, George Leslie 2 E  
 O'Toole, Lawrence M. 1  
 Overdorff, James Virgil 2  
 Overton, Harold Lane 0  
 Owen, Edsel M. 0  
 Owens, Dean Paul 0  
 Owens, Edgar Hart 0  
 Ozment, Jere Marr 0  
 Padgett, Glenn Ernest 6  
 Page, Jackie O'Neal 2  
 Page, Reid Allison, Jr. 1  
 Page, Talmadge D. 5  
 Pagter, Amos Townsend, Jr. 2  
 Palladino, Fred 6  
 Palmer, Cecil Albert 4 E  
 Palmer, Kenneth Fulton 1  
 Palmore, Erdman B. 0  
 Palumbo, Edward A. 7  
 Pandolfo, Patrick A. 6  
 Pardee, Graham F. 7  
 Parker, Harry Lynn 0  
 Parker, James B. 4 E  
 Parker, Leonard Alden 0  
 Parker, Mayon Vann 5  
 Parker, Richard M. 6  
 Parkerson, George Robert, Jr. 4  
 Parkhurst, Robert 7  
 Parks, Robert Kenneth 2  
 Parks, Robert Louis 4  
 Parnell, James Thomas 4 E  
 Parrish, Diugwid Beirne 0  
 Parrish, Edwin C. 2 E  
 Parrish, Elbert Adrian 2  
 Parrish, Joseph Alfred Gorgas 4  
 Parry, John F. 4  
 Partain, Eugene Gartly 0  
 Past, Si Alexander, Jr. 6  
 Pate, Robert Bruce 2  
 Patrick, John Earle 0  
 Patterson, Daniel W. 7  
 Patterson, Robert Floyd 0  
 Patterson, Sam Polk 2  
 Patton, Frank Caldwell 5  
 Paul, Albert Benner 0  
 Paules, William Roger 6  
 Paulsen, C. Richard 2  
 Pavloff, George 0  
 Pavuk, Myron G. 1

Durham, N. C.  
 Greenville, S. C.  
 Bridgeton, N. J.  
 Baldwin, N. Y.  
 Baldwin, N. Y.  
 Shenandoah, Pa.  
 Kent, Ohio  
 West Orange, N. J.  
 Glen Burnie, Md.  
 Hayti, Mo.  
 Durham, N. C.  
 Ashland, W. Va.  
 Atlanta, Ga.  
 Durham, N. C.  
 Johnstown, Pa.  
 Durham, N. C.  
 Durham, N. C.  
 Staten Island, N. Y.  
 Louisburg, N. C.  
 Dyersburg, Tenn.  
 Marianna, Fla.  
 Rockingham, N. C.  
 Durham, N. C.  
 Rockingham, N. C.  
 Washington, D. C.  
 Verona, N. J.  
 Crystal Hill, Va.  
 Hampton, Va.  
 Crystal Hill, Va.  
 Orange, N. J.  
 Vineland, N. J.  
 Floral Park, N. Y.  
 Spartanburg, S. C.  
 Dunn, N. C.  
 Dunn, N. C.  
 Durham, N. C.  
 Philadelphia, Pa.  
 Macon, Ga.  
 Danville, Va.  
 Nelsonville, Ohio  
 Sarasota, Fla.  
 Coaldale, Pa.  
 Huntington, W. Va.  
 Rougemont, N. C.  
 Durham, N. C.  
 Norfolk, Va.  
 Chattanooga, Tenn.  
 Paragould, Ark.  
 Creedmoor, N. C.  
 La Grange, N. C.  
 Charlotte, N. C.  
 Greensboro, N. C.  
 Roseboro, N. C.  
 Memphis, Tenn.  
 Morganton, N. C.  
 Upper Darby, Pa.  
 York, Pa.  
 Shorewood, Wis.  
 Munhall, Pa.  
 Jessup, Pa.

- Peacock, James Daniel 0  
 Peake, Robert Sanders 6  
 Pearce, Robert M. 2  
 Pearson, Alden Bryan, Jr. 0  
 Pearson, Eugene D. 2 E  
 Peele, William Oscar 4  
 Peoples, Paul W. 8  
 Pegram, Paul Ogburn, Jr. 2  
 Pepper, George 0  
 Pereira, Woodrow Harrison 3  
 Perez, Pierre 0  
 Pergrem, Ernest Bernard 2 E  
 Perkinson, Carl Joseph 4  
 Perkinson, Seth Jones, Jr. 2  
 Perry, Thomas R. 4  
 Persechino, Mario A. 4 E  
 Person, James Ellis 6 E  
 Peterson, Joseph Miller 0  
 Peterson, Robert Taylor 2  
 Petruchik, Peter 0  
 Pfahler, Carl Richard 4 E  
 Pfann, John Richard 4  
 Pfefferkorn, Robert Gillimer 6  
 Phillips, Carroll Preston 0  
 Phillips, Joe R. 2 E  
 Pickett, Earl Judson 6 E  
 Pickett, Hubert Washington, Jr. 4 E  
 Pickett, William Harry 4  
 Piephoff, Zachary Taylor 0  
 Pierce, Henry J. 5  
 Pierce, John Arthur 4  
 Pierce, Walter Morgan 6  
 Pierce, William Howard 3  
 Pike, George Russell 0  
 Pippel, Richard Wright 0  
 Pischel, Richard Anton 0  
 Pitt, Jack Anderson 4 E  
 Plaster, Henry Garnett, Jr. 4  
 Plimpton, Hollis Winslow, Jr. 1  
 Pogany, Ernest J. 4 E  
 Polier, Arthur 6  
 Polinger, David Harris 5  
 Polk, Ted Pritchard 4  
 Pollack, Jack Robert 1  
 Pollock, James Harold 0  
 Pomeroy, Charles Ed. 0  
 Pool, Jack Freeman Spec.  
 Poole, Elliott Bruce 2  
 Porter, David G. 6  
 Porter, Robert Alton 4  
 Poss, Henry Maurice 0  
 Poston, Howard Henry, Jr. 4  
 Poston, Nathaniel Avent 9  
 Poteat, George Albert 4 E  
 Poteet, Jamie Thomas 5  
 Potter, Edwin E., Jr. 7  
 Poulnot, Edwin H. 7  
 Powell, William C., Jr. 1  
 Powers, Noyes T. 2  
 Prairie, Robert Lyle 3  
 Baltimore, Md.  
 Arlington, Va.  
 Shelbyville, Ky.  
 Raleigh, N. C.  
 New York, N. Y.  
 Williamston, N. C.  
 Estill, S. C.  
 Winston-Salem, N. C.  
 Bronxville, N. Y.  
 New York, N. Y.  
 Las Villas, Cuba  
 Ashland, Ky.  
 Asheville, N. C.  
 Asheville, N. C.  
 Shenandoah, Pa.  
 Torrington, Conn.  
 Portsmouth, Va.  
 Buffalo, Ky.  
 Rutherford, Tenn.  
 Franklin, N. J.  
 Charlotte, N. C.  
 Mountain Lakes, N. J.  
 Winston-Salem, N. C.  
 Memphis, Tenn.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Greensboro, N. C.  
 Swarthmore, Pa.  
 Ocean Grove, N. J.  
 Coral Gables, Fla.  
 Ashtabula, Ohio  
 Lynn, Mass.  
 Glassboro, N. J.  
 New York, N. Y.  
 Westfield, N. J.  
 Washington, D. C.  
 Miami Beach, Fla.  
 Bridgeport, Conn.  
 Raleigh, N. C.  
 Mt. Vernon, N. Y.  
 Hamlet, N. C.  
 Flushing, N. Y.  
 Westerville, Ohio  
 Louisville, Ky.  
 Macon, Ga.  
 Jamesburg, N. J.  
 Lenoir, N. C.  
 Savannah, Ga.  
 Chattanooga, Tenn.  
 Kingstree, S. C.  
 Florence, S. C.  
 Danville, Va.  
 San Angelo, Texas  
 Durham, N. C.  
 Charleston, S. C.  
 Jacksonville, Fla.  
 Cumberland, Md.  
 O'Brien, Ore.



Premo, Don Allen	2 E	Durham, N. C.
Prentiss, James Hendry	5	Durham, N. C.
Pressley, Lucius Crawford, Jr.	7	Chester, S. C.
Price, Charles Russell	2	Summerville, S. C.
Price, Richard Glenn, Jr.	4	Greer, S. C.
Price, Robert McCollum, Jr.	0	Greensboro, N. C.
Price, Robert W.	5	Waban, Mass.
Price, William Knox, Jr.	0	Charlotte, N. C.
Priemer, August B.	6	New York, N. Y.
Priester, John David	2 E	Davenport, Iowa
Prior, Freeman Garver	6	Falls Church, Va.
Pritchard, Robert Harrison, Jr.	0	Washington, D. C.
Privett, George Phillips, Jr.	2	Ft. Monroe, Va.
Privette, Herbert G.	4	Lake View, S. C.
Probert, Kenneth Denton	0	Kingsville, Md.
Proctor, Dan Moore	0	Durham, N. C.
Proctor, Thomas Lee	4	Glen Ridge, N. J.
Propst, Arnold Marion	2	Maiden, N. C.
Propst, Clyde L.	4	Concord, N. C.
Pryor, Frank Pierson	1	Little Rock, Ark.
Ptaschinski, George H.	7 E	Newark, N. J.
Pullen, Dale D.	2	Miami, Fla.
Pullen, Irving Wendell	2	Claremont, N. H.
Purves, Richard Eugene	2	Washington, D. C.
Purvis, Julius Henry	5	Belhaven, N. C.
Putman, David D.	0	Greenville, S. C.
Putnam, Gerrie Price	7	Washington, D. C.
Putnam, John Graves, Jr.	2	Buffalo, N. Y.
Pyatt, Clyde D.	6	Weaverville, N. C.
Pyle, Robert Henry	2	North Muskegon, Mich.
Quain, John Joseph	6	Orange, N. J.
Query, Erwin Leavitt	2 E	Charlotte, N. C.
Quinn, Arthur Mellor, Jr.	0	Cheltenham, Pa.
Rabley, Joseph E.	7	Durham, N. C.
Radner, Sanford R.	1	Monroe, N. Y.
Raebeck, Charles	6	Durham, N. C.
Raines, William George, Jr.	4	Greenville, S. C.
Raisch, Robert Simpson	2 E	Detroit, Mich.
Ralph, Donald Barnes	3	Rochester, N. Y.
Ramsay, William T.	4	Rocky Mount, N. C.
Ramsey, Robert Wayne	3	Newport News, Va.
Rand, Julian A.	4 E	Raleigh, N. C.
Rankin, Frank LaFayette, Jr.	0	Mt. Holly, N. C.
Rankin, Harold Eugene, Jr.	0	Willoughby, Ohio
Rasberry, Robert Pittman, Jr.	0	Kinston, N. C.
Rauch, Robert Joseph	6	Cedarhurst, N. Y.
Rawlings, Charles E.	6	Jarratt, Va.
Ray, Herbert Howard	2	Winston-Salem, N. C.
Ray, Jack Leroy	6	Myrtle Beach, S. C.
Raywid, Alan	0	Washington, D. C.
Reap, Charles Augustus, Jr.	0	Albemarle, N. C.
Reardin, Charles R., Jr.	6	Paterson, N. J.
Reckenbeil, Arthur J., Jr.	8	New Hyde Park, N. Y.
Reece, Oscar E.	4	Durham, N. C.
Reed, Gordon Anthony	4	Durham, N. C.
Reed, Myron George, II	0	Colombia, South America
Reep, Bryan R.	2	Raleigh, N. C.
Reese, John E.	5	Berwyn, Md.
Reeves, Ernest Gene	0	Chattanooga, Tenn.
Reeves, Jerry Healand	2	Greenville, S. C.

- Reeves, Thomas Charles 4  
 Regan, James Robert, Jr. 6  
 Reid, Carl T. 2  
 Reid, Frank Albert 0  
 Reinhart, Henry Paul 2 E  
 Renfrow, Leslie H. 2  
 Renfrow, Robert Perry 2  
 Renuart, Adhemar William 0  
 Revel, John F. 4  
 Reyle, Bruce William 0  
 Reyle, John Edward 6  
 Reynolds, Joseph Charles 0  
 Reynolds, Raymond Earl 2  
 Rhame, John Marion, Jr. 6 E  
 Rhea, William Paul 6 E  
 Rhine, Robert Eldon 6  
 Rhinehart, Robert Lee 8  
 Rhodes, Dean A. 2  
 Rhodes, Wade M., Jr. 5  
 Ricca, Samuel Joseph 3  
 Rice, Ernest H. 4  
 Rice, Milton B. 4  
 Rice, William Henry 2  
 Rich, Robert Ellett 6  
 Richardson, Roy Gerald 0  
 Richardson, William B 2 E  
 Richeson, Raymond McGready 6  
 Richmond, Lee Garred 0  
 Richmond, Lewis Cass, Jr. 4  
 Rickard, Robert Stanley 2  
 Ridenhour, Robert Lee 7  
 Ridout, Robert Charles 2 E  
 Rigioni, Rodrigo M. 7  
 Rigsbee, William Alton 4  
 Ring, Clay Vance, Jr. 0  
 Rink, Robert Flude 0  
 Riordan, William Courtney 4  
 Ritchie, Lee Robert 0  
 Robbins, Donald S. 7 E  
 Robbins, Guy L. 6 E  
 Roberts, Ray Crouse, Jr. 4  
 Roberts, William R. 4 E  
 Robertson, William Badger 4  
 Robin, Clayton, Jr. 5  
 Robins, James A. 7  
 Robinson, Albert Donald 0  
 Robinson, Warren Holt 4  
 Robnett, Joe J., Jr. 6 E  
 Rodney, George Walter 0  
 Roe, John McKinster 0  
 Rogers, Rembert A. 6  
 Rogers, Robert Taylor 0  
 Rogers, William Henry 0  
 Rogers, William Plummer 2  
 Roland, William E. 8  
 Ronca, Paul Crane 0  
 Rose, Carl P. 2  
 Rose, Charles Alexander 4  
 Rose, Charles Kenneth, III 4  
 Rose, Elwood Hines 4 E  
 Charleston, S. C.  
 Troy, N. C.  
 Rosehill, N. C.  
 Grosse Pointe, Mich.  
 Durham, N. C.  
 Lucama, N. C.  
 High Point, N. C.  
 Miami, Fla.  
 Charleston, S. C.  
 Fair Lawn, N. J.  
 Radburn, N. J.  
 Asheville, N. C.  
 Penns Grove, N. J.  
 Bishopville, S. C.  
 Kansas City, Mo.  
 Durham, N. C.  
 Canton, N. C.  
 Columbia, S. C.  
 Portsmouth, Va.  
 Hammononton, N. J.  
 Durham, N. C.  
 Dyersburg, Tenn.  
 Macon, Ga.  
 Washington, D. C.  
 Columbia, Pa.  
 Reidsville, N. C.  
 Ashland, Va.  
 Milton, W. Va.  
 Milton, W. Va.  
 East Orange, N. J.  
 Kannapolis, N. C.  
 Pelham, N. Y.  
 Grecia, Costa Rica  
 Durham, N. C.  
 Kernersville, N. C.  
 Pittsburgh, Pa.  
 Kingsville, Md.  
 Huntington, W. Va.  
 Waterbury, Conn.  
 Durham, N. C.  
 Gastonia, N. C.  
 Leland, Miss.  
 Mt. Sterling, Ky.  
 White Plains, N. Y.  
 Durham, N. C.  
 Rutherford, N. J.  
 Charlotte, N. C.  
 Durham, N. C.  
 Baltimore, Md.  
 Okeechobee, Fla.  
 Albemarle, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Charleston, S. C.  
 Johnson City, Tenn.  
 Niagara Falls, N. Y.  
 Rocky Mount, N. C.  
 Wilmington, N. C.  
 Allentown, Pa.  
 Rocky Mount, N. C.

Rose, Louis Langford 0  
 Roseberry, Philip Leon 2  
 Rosemond, Robert Malone 4  
 Rosenberg, Dietrich F. 2  
 Rosenberg, Edward Robert 4  
 Rosenberg, Jac A. 4  
 Rosenberg, Robert Harold 2  
 Rosenthal, Joseph Stone 0  
 Ross, Earl J. 4  
 Ross, James Vincent 2  
 Ross, John Joeeph 2  
 Ross, Joseph Alderman 4  
 Ross, Joseph Almon, Jr. 6 E  
 Ross, Joseph George, Jr. 0  
 Rosso, Leonidas 6  
 Roth, Arnold Israel 2  
 Roush, Robert Ray 4  
 Rowan, Timothy Eugene Spec.  
 Rowan, William Keenan 4  
 Rowe, Alan L. 2 E  
 Rowe, Herbert G. 4  
 Rowland, William R. 4  
 Roy, Harold E. 6  
 Rucker, Richard Carlton 0  
 Rucks, Percy Osborne 4  
 Rudisill, Jennings Bryan, Jr. 5  
 Rudisill, John A., Jr. 4 E  
 Rudisill, Machael E. 6 E  
 Rueckert, Arthur Wilfred 7  
 Rufin, James Artemus, Jr. 4  
 Ruffner, Van Nata, Jr. 5  
 Runyan, Thorne Leslie 0  
 Rusack, John D. 2 E  
 Rusinow, Dennison Ivan 0  
 Russell, William Arthur 5  
 Russell, William Ellsworth 0  
 Russell, William Harry 4  
 Russo, Robert Joseph 4  
 Rutherford, John Mateer, Jr. 0  
 Rutherford, Robert Owen 0  
 Sager, Samuel Ott 6  
 Sager, Stanley Melvin 5  
 Saieed, Alfred Earl 0  
 Salazar, Mauro George 0  
 Sally, John Lea 0  
 Sampley, Roy C., Jr. 6  
 Sandefur, Earl Wilton 4  
 Sanders, John William, III 6  
 Sands, Robert Norman 2  
 Saparilas, Andrew N. 2  
 Sapp, Carl F. 6  
 Sarazen, John C. 0  
 Sasser, Louis L. 0  
 Satlof, Melvin Gordon 9  
 Satterthwaite, Norman Doyle 4  
 Saunders, Stanley Stewart 6 E  
 Savitt, Herbert S. 0  
 Scafuro, Angelo C. 6  
 Scalise, Vincent Joseph 0  
 Scarborough, David K. 4

Charlotte, N. C.  
 York, Pa.  
 Charleston, S. C.  
 Johnson City, N. Y.  
 Johnson City, N. Y.  
 Mobile, Ala.  
 Newton Centre, Mass.  
 Durham, N. C.  
 Durham, N. C.  
 Easton, Pa.  
 Jacksonville, Fla.  
 Wadesboro, N. C.  
 Durham, N. C.  
 Spring City, Pa.  
 Norfolk, Va.  
 Birmingham, Ala.  
 Anderson, W. Va.  
 Falls Church, Va.  
 Des Moines, Iowa  
 Waterbury, Vt.  
 Alexandria, Va.  
 Nesquehoning, Pa.  
 Durham, N. C.  
 Bristol, Tenn.  
 Wilsons, Va.  
 Charlotte, N. C.  
 Gibsonville, N. C.  
 Gibsonville, N. C.  
 Dunkirk, N. Y.  
 Hampton, S. C.  
 Milwaukee, Wis.  
 Norfolk, Va.  
 Catskill, N. Y.  
 St. Petersburg, Fla.  
 Marshall, Va.  
 Burgettstown, Pa.  
 Rockingham, N. C.  
 Forest Hills, N. Y.  
 Charleston, W. Va.  
 White Plains, N. Y.  
 Danville, Va.  
 Washington, D. C.  
 Greenville, N. C.  
 Atlantic Beach, N. Y.  
 Durham, N. C.  
 Eastman, Ga.  
 Winston-Salem, N. C.  
 Bristol, Va.  
 New York, N. Y.  
 Raleigh, N. C.  
 Raleigh, N. C.  
 White Plains, N. Y.  
 Durham, N. C.  
 Albany, Ga.  
 Roanoke Rapids, N. C.  
 High Point, N. C.  
 Ansonia, Conn.  
 Allendale, N. J.  
 Geneva, N. Y.  
 Philadelphia, Pa.

- Scarrow, David Shotwell 6  
 Scarrow, Howard Albert 6  
 Schacter, Jerome Miles 5  
 Schaefer, Norb F., Jr. 0  
 Schick, Philip Martin 4  
 Schiffl, Nicholas William 3  
 Schmahl, Frank Devlin 7  
 Schmidt, Henry George, Jr. 4  
 Schoonmaker, A. Stuart 4  
 Schoonmaker, Fred Walter 0  
 Schrider, William Thomas, Jr. 1  
 Schwarz, Fred K. 2 E  
 Schwarz, Robert James 2  
 Schwartz, Ronald Albert 0  
 Scioscia, Lewis T. 6  
 Scisco, Robert W. 7 E  
 Scollon, Donald B. 2 E  
 Scott, John B. 0  
 Scott, John David 2 E  
 Scott, Robert Cecil 2  
 Scott, Robert Walter 2  
 Scott, Samuel Gray 0  
 Scott, William Chadwick 0  
 Scott, William Edward 4 E  
 Scupine, William F. 8  
 Seaton, Edwin Claude 3  
 Seay, Thomas Waller, Jr. 6  
 Seeley, Ralph Marion 0  
 Self, Joseph Morrison 0  
 Senter, Guy Wilton 5  
 Sessoms, Carlie B. 5  
 Settle, Edward A. 7  
 Setzer, Evan S., Jr. 4  
 Shackelford, Robert Glenn 2  
 Shaffer, John Taylor 7  
 Shain, Edwin 0  
 Shankle, Claude Harold 5  
 Shankweiler, Fred L. 7  
 Shapiro, Herbert Sanford 2  
 Sharpe, Albert McDavid 6  
 Sharpe, Edward R. 4  
 Sharpe, Keith Yount 0  
 Sharpe, Norman Thomas 4  
 Sharrett, Roger Carlton 4  
 Shaudys, Vincent K. 4  
 Shaw, Edward Donald 7  
 Shaw, James H. 2 E  
 Shaw, John D. 4  
 Shealy, George L., Jr. 6  
 Shelby, Wallace McDowell 2 E  
 Shelley, George L. 2  
 Shepherd, Douglas Nelson 5  
 Shepherd, Robert Edward 6 E  
 Shepherd, Roy Cornelius, Jr. 7  
 Shertz, Walter Lambeth 2 E  
 Sherman, Ira Gray 7  
 Sherrill, Frank Carlye 2  
 Sherrill, John Lawrence 4  
 Sherrill, Tobias A. 2  
 Sherwood, Horace Moore, Jr. 8  
 Detroit, Mich.  
 Detroit, Mich.  
 Brooklyn, N. Y.  
 Indianapolis, Ind.  
 Cos Cob, Conn.  
 Clewiston, Fla.  
 Coshocton, Ohio  
 East Orange, N. J.  
 Walden, N. Y.  
 Lander, Wyo.  
 Silver Spring, Md.  
 Webster Groves, Mo.  
 Chatham, N. J.  
 Warren, Pa.  
 Lansdowne, Pa.  
 Creedmoor, N. C.  
 Barnesboro, Pa.  
 Waugh, Ala.  
 El Paso, Texas  
 Roanoke, Va.  
 Haw River, N. C.  
 Kannapolis, N. C.  
 Petersburg, Va.  
 Woodhaven, N. Y.  
 Miami, Fla.  
 Manitowoc, Wis.  
 Spencer, N. C.  
 Candor, N. Y.  
 Greensboro, N. C.  
 Raleigh, N. C.  
 Durham, N. C.  
 Garden City, N. Y.  
 Newton, N. C.  
 High Point, N. C.  
 Baltimore, Md.  
 Wilmington, N. C.  
 Albemarle, N. C.  
 Allentown, Pa.  
 Augusta, Ga.  
 Lumberton, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 West Palm Beach, Fla.  
 New York, N. Y.  
 Newtown, Pa.  
 Guatemala, Central America  
 Baltimore, Md.  
 Sistersville, W. Va.  
 South Orange, N. J.  
 Maplewood, N. J.  
 Bristol, Conn.  
 Huntington, W. Va.  
 Oak Ridge, Tenn.  
 Lexington, N. C.  
 Washington, D. C.  
 Durham, N. C.  
 Cornelius, N. C.  
 Cornelius, N. C.  
 Greensboro, N. C.  
 Coral Gables, Fla.



Shevick, Jerry J. 6  
 Shields, J. D. 0  
 Shipley, Joe M. 4 E  
 Shirik, Wesley H. 2 E  
 Sholtz, M. D. 2 E  
 Shore, Edgar Eugene, Jr. 4  
 Shore, George Edward 2  
 Short, Emmett Fulton 5  
 Short, Frederick Wm. 6 E  
 Short, Raymond J., Jr. 4  
 Shuford, Wm. Albert 2  
 Shugar, Gilbert Lee 7  
 Shull, Joseph Roger 0  
 Shulsinger, Joseph 2  
 Shumaker, Samuel Robert 0  
 Shuster, Charles Willard 0  
 Sibley, Donald Malcolm 4 E  
 Siegfried, Francis H. 6 E  
 Siler, Clifton Eugene 2  
 Siler, Frank Gilmer 4 E  
 Siler, Gail A. 6  
 Silk, Robert W. 1  
 Silkett, Robert Tillson 2  
 Silver, Donald 4  
 Simard, Harry L. 6  
 Simidian, Ara Vahan 2  
 Simmons, Bowen Eugene 2  
 Simmons, Roy Eugene 2  
 Simon, Harold 0  
 Simon, Robert Raymond 7 E  
 Simon, Willie Lee 6  
 Simpson, George D. 6 E  
 Simpson, James Walter 4  
 Simpson, Lawrence R. 6  
 Simpson, Norman Emmett 4  
 Simpson, Robert Truesdale 0  
 Simpson, Ronald Vincent 0  
 Singletary, Oliver Donald 1  
 Sink, Carl Jackson 6  
 Sires, Leroy A., Jr. 4  
 Sirois, Richard Albert 2  
 Siskind, Barry Ellis 2  
 Sisson, John Paddock 4  
 Skibinsky, Morris Spec.  
 Slane, John Clark 2  
 Slaney, James Dale 4  
 Slaught, Charles Kyle, Jr. 0  
 Sledge, John Burton, Jr. 2  
 Sliker, Alan William 2  
 Slone, Harry Lee 2  
 Sloan, Randle C. 6 E  
 Small, Robert R. 3  
 Smallback, Wm. C. 6  
 Smalling, Sam Gregg 0  
 Smeak, Carroll David 0  
 Smith, Allen P. 6  
 Smith, Alton B. 4  
 Smith, Arthur George, Jr. 10  
 Smith, Charles William 6  
 Smith, Clifford Forest 0

Towson, Md.  
 Maryville, Tenn.  
 Johnson City, Tenn.  
 Philadelphia, Pa.  
 Asheville, N. C.  
 Kernesville, N. C.  
 Winston-Salem, N. C.  
 Shellman, Ga.  
 High Point, N. C.  
 Orange, N. J.  
 Thomasville, N. C.  
 Tarboro, N. C.  
 Bridgeport, Conn.  
 Jamaica, L. I., N. Y.  
 Washington, D. C.  
 Glen Rock, N. J.  
 San Francisco, Calif.  
 Melrose Park, Pa.  
 Asheville, N. C.  
 Tampa, Fla.  
 Wyandotte, Mich.  
 Washington, D. C.  
 Silver Spring, Md.  
 Asheville, N. C.  
 Holyoke, Mass.  
 Forest Hills, N. Y.  
 Opp, Ala.  
 Pilot Mountain, N. C.  
 Trenton, N. J.  
 Westbury, N. Y.  
 New Hill, N. C.  
 Rockford, Ill.  
 Charlotte, N. C.  
 Durham, N. C.  
 Hinton, W. Va.  
 Rock Hill, S. C.  
 Bridgeport, Conn.  
 Scranton, S. C.  
 Winston-Salem, N. C.  
 Charleston, S. C.  
 Portland, Maine  
 Brooklyn, N. Y.  
 Pensacola, Fla.  
 New York, N. Y.  
 High Point, N. C.  
 York, Pa.  
 Daytona Beach, Fla.  
 Rich Square, N. C.  
 Sabina, Ohio  
 Roanoke, Va.  
 Durham, N. C.  
 Morganton, N. C.  
 Oakfield, N. Y.  
 Bristol, Tenn.  
 Hanover, Pa.  
 Boston, Mass.  
 Raleigh, N. C.  
 Binghamton, N. Y.  
 San Francisco, Calif.  
 Pinehurst, N. C.

- Smith, Delroy 0  
 Smith, Edward Byron 2 E  
 Smith, Frank Calton 4  
 Smith, Fred Robert 2  
 Smith, Gilbert Heaton 0  
 Smith, Harry H. 0  
 Smith, James H. 4  
 Smith, John N., Jr. 3  
 Smith, Joseph Colbert 6  
 Smith, Lee A. 4  
 Smith, Lee C. 4  
 Smith, Melbourne LeRoy 4  
 Smith, Micah Jenkins 2  
 Smith, Norwood G. 7  
 Smith, Pershing G. 5  
 Smith, Richard Bowden 2  
 Smith, Richard Melville 2  
 Smith, Richard Stanley 4  
 Smith, Robert Eugene 5  
 Smith, Sherwood D. 4  
 Smith, Sterling Lee 2  
 Smith, Wm. Burtord 4  
 Smith, William D. 4  
 Smith, William James 7  
 Smith, William Lawrence, Jr. 0  
 Smith, William M. 8  
 Smith, William Monroe 2  
 Smith, Yandell Roberts 7  
 Smitherman, Frank B. 2  
 Smullen, John James, Jr. 0  
 Smyre, Melford Alton 2  
 Snively, Lawrence W. 2  
 Snow, Jack Ramsey 2  
 Snow, John Wesley 2  
 Snyder, Harry M. 0  
 Snyder, Robert C. 0  
 Sola, Jorge Luis 0  
 Solomon, James Russell 2  
 Sorrell, Quinton Lee 4 E  
 Sorrell, William Richard 0  
 Souchak, Michael 2  
 Southern, J. Albert 4  
 Sovick, George Penn 0  
 Spach, Madison Stockton 4  
 Spangler, Ronald T., Jr. 0  
 Spann, Guy Stewart 2  
 Spearman, James Henry 5  
 Spears, Charles Stephens 0  
 Speas, Irvin Gorrell 6 E  
 Speight, Robert S. 0  
 Speir, David Ordway 8  
 Spence, Talmage T. 6  
 Spencer, Joseph Whitney 4  
 Spillman, Harry Lawrence 2  
 Spiropulos, Spiro 2  
 Sprinkle, Ben F. 4  
 Stallings, Tolbert Lacy, Jr. 4  
 Stanback, Fred Jennings 4  
 Stanford, Stephen Dunlap 6  
 Stanley, L. V. 7  
 Bangor, Pa.  
 Riaddonfield, N. J.  
 Charlotte, N. C.  
 Lynn, Mass.  
 Dayton, Ohio  
 Baltimore, Md.  
 Mt. Airy, N. C.  
 Wilmington, N. C.  
 Charlotte, N. C.  
 Norfolk, Va.  
 Raleigh, N. C.  
 Hamlet, N. C.  
 Clover, S. C.  
 Wilmington, N. C.  
 Tuscaloosa, Ala.  
 Durham, N. C.  
 Poughkeepsie, N. Y.  
 Pinehurst, N. C.  
 Monroe, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Tampa, Fla.  
 Martinsville, Va.  
 Lithonia, Ga.  
 Wheaton, Ill.  
 Charlotte, N. C.  
 Lenoir, N. C.  
 Louisville, Ky.  
 Winston-Salem, N. C.  
 Salisbury, Md.  
 Newton, N. C.  
 Ben Avon Heights, Pa.  
 Fulton, Ky.  
 Gainesville, Fla.  
 Hickory, N. C.  
 Winston-Salem, N. C.  
 Washington, D. C.  
 Fort Wayne, Ind.  
 Durham, N. C.  
 Dunn, N. C.  
 Berwick, Pa.  
 Atlanta, Ga.  
 Charleston, W. Va.  
 Winston-Salem, N. C.  
 Ft. Lauderdale, Fla.  
 Plant City, Fla.  
 Charlotte, N. C.  
 Paris, Ky.  
 Winston-Salem, N. C.  
 Elm City, N. C.  
 Tampa, Fla.  
 Raleigh, N. C.  
 Charleston, W. Va.  
 Charlotte, N. C.  
 Jamaica, N. Y.  
 Lenoir, N. C.  
 Louisburg, N. C.  
 Salisbury, N. C.  
 Durham, N. C.  
 Galax, Va.

Stark, Robert Lee	6	Clarksburg, W. Va.
Stark, Thomas Hall	4	Huntington, W. Va.
Starkey, Bernard	1	Quinton, Va.
Starks, Garvin Tremaine	4 E	Tampa, Fla.
Starks, Norman Ralph	6 E	Durham, N. C.
Starnes, Dale S.	6	Granite Falls, N. C.
Stathakis, Gregory John	3	Chester, S. C.
Stauts, Lester John, Jr.	0	Sharon Hill, Pa.
St. Clair, Charles Tiffany	2	Bluefield, W. Va.
St. Clair, Charles Wade	0	Welch, W. Va.
Steadman, Robert H.	4 E	Swampscott, Mass.
Steagall, Robert Worth	2	Charlotte, N. C.
Steel, John S.	4	Teaneck, N. J.
Steele, James G.	5	Chillicothe, Ohio
Steiner, Kenneth J.	4 E	Jeannette, Pa.
Stentz, Donald Alan	6 E	Durham, N. C.
Stephanz, Paul William	4	Jacksonville, Fla.
Sterling, Lehman N.	2	Newtown Square, Pa.
Stevens, Thomas Norris, Jr.	0 (6 wks)	Savannah, Ga.
Stever, Arthur Henry	2	Miami, Fla.
Stevlingson, Wheldon F.	2 E	Austin, Texas
Stewart, Alva Theodore, Jr.	6	Keystone, W. Va.
Stewart, Harold Eugene	2	Otto, N. C.
Stewart, Harvey Hester, Jr.	4 E	Charlotte, N. C.
Stewart, Jack A.	7	Jacksonville, Fla.
Stewart, Robert R.	7	Ironton, Ohio
Stewman, John Alexander	4	Charlotte, N. C.
Stickel, Delford LeFev	6	Martinsburg, W. Va.
Stillwell, Edgar F.	2	Staten Island, N. Y.
Stillwell, H. Daniel	0	Staten Island, N. Y.
Stipe, Robert Edwin	4	Easton, Pa.
Stockdale, Ralph Wayne	0	Rockford, Ill.
Stockslager, Arthur James	4 E	Westfield, N. J.
Stockton, Manley S.	6	Atlanta, Ga.
Stokes, Frank Stewart, Jr.	2	Portsmouth, Va.
Stokes, William A.	2 E	Durham, N. C.
Stone, Albert Leppo	4 E	Winter Haven, Fla.
Stone, George R.	4 E	Mt. Pocono, Pa.
Stone, Hugh Lloyd, Jr.	6 E	Raleigh, N. C.
Stone, John W.	1	Raleigh, N. C.
Stone, Paul Raymond, Jr.	2 E	Martinsville, Va.
Stork, Carl Alexander	5	Philadelphia, Pa.
Story, Harry Allen	2 E	Lakewood, Ohio
Stottlar, James Francis	0	Peekskill, N. Y.
Stottlemeyer, Paul Clinton	6 E	Hagerstown, Md.
Stowers, Stewart Frank	4	Bluefield, W. Va.
Stradley, Walter McNutt	0	Excelsior, W. Va.
Strandberg, Charles F.	4 E	Greensboro, N. C.
Strasser, Richard I.	3	New York, N. Y.
Stratton, John T.	4	Atlanta, Ga.
Strauch, C. Richard	4	Benton, Pa.
Strauss, Saul	0	Brooklyn, N. Y.
Street, John Scott	2	Chillicothe, Ohio
Stride, Richard Joseph	2	Saco, Maine
Strider, Robert Lee	4	Fayetteville, N. C.
Stringer, Arthur John, Jr.	2	Mountain Lakes, N. J.
Strother, Paul Nelson, Jr.	8	Stantonsburg, N. C.
Strott, John William	2	Baltimore, Md.
Stull, Clark D., Jr.	0	Ridley Park, Pa.
Stvan, Edward B.	5	Bay Village, Ohio

- Suddard, Neal A. 7  
 Sugarman, Alan C. 6  
 Sugg, Robert Whittington 4  
 Sullivan, Edward James 2  
 Sullivan, Henry E. 2 E  
 Sullivan, James Howell 0  
 Sullivan, John Louis, Jr. 4  
 Sumard, Charles K. George 1  
 Summers, James A. 7  
 Summers, Joseph V. 6  
 Sutphin, Arthur T. 4 E  
 Suttle, Michael, Jr. 3  
 Sutton, Loyd Erskine 3  
 Sutton, Quincy Jackson 4  
 Swain, Thomas Ryan 2  
 Swain, William A. 3  
 Swalchick, George 7  
 Swann, Thomas Burnett 4  
 Swanson, Arnold A., Jr. Spec.  
 Swanson, Edward N. 0  
 Swanson, William Edward 5  
 Sweatt, Robert Jehu 2  
 Sweeney, John Rodney 6  
 Swerlick, Robert 4  
 Swiger, Quentin Gilbert 6  
 Swofford, Thomas Hoyle, Jr. 0  
 Sykes, John Howard 2  
 Sylvester, Michael 3  
 Tager, Henry Clay 2  
 Tager, Milton Lee 4 E  
 Tagert, Russell Hayes 0  
 Tamis, Robert Howard 0  
 Tanaka, Shin 4  
 Tanc, Charles Beecher 4  
 Tapley, John Mark 2  
 Tarter, James W. 6  
 Tatom, Louis 4  
 Taylor, Alex Wright 0  
 Taylor, Creed Bane, V 2  
 Taylor, Edd W. 6  
 Taylor, James Charles 0  
 Taylor, Joseph W. 4 E  
 Taylor, Julian Ray 0  
 Taylor, Neil C. 7  
 Taylor, Robert C. 7  
 Taylor, Robert R. Spec.  
 Taylor, Walter Herman, Jr. 0  
 Taylor, William James 7  
 Taylor, William Warren 4  
 Tedder, Frank Gaines 2  
 Temples, Charles William 6  
 Tepe, Louis Charles 0  
 Ternosky, Carl 3  
 Terpenning, George C. 1  
 Terrell, Robert Lewis 0  
 Terry, Isaac Holt, Jr. 3  
 Thacker, Frank Arrington 6  
 Thiel, Goodrich A. 4  
 Thigpen, Richard Elton, Jr. 2  
 Thomas, Bernard Hylton 7  
 Newark, Dela.  
 Asbury Park, N. J.  
 Durham, N. C.  
 Riverside, N. J.  
 Washington, D. C.  
 Columbus, Ga.  
 Macon, Ga.  
 Williamston, N. C.  
 Salisbury, N. C.  
 Ardmore, Pa.  
 Princeton, N. J.  
 Newport News, Va.  
 Monroe, N. C.  
 Warsaw, N. C.  
 Newport News, Va.  
 Asheville, N. C.  
 Colver, Pa.  
 Winter Haven, Fla.  
 Pasadena, Calif.  
 Pilot Mountain, N. C.  
 Nashville, N. C.  
 Landis, N. C.  
 Scarsdale, N. Y.  
 Philadelphia, Pa.  
 Clarksburg, W. Va.  
 Walkertown, N. C.  
 Burlington, N. C.  
 Springfield, Pa.  
 Durham, N. C.  
 Durham, N. C.  
 Greensboro, N. C.  
 New York, N. Y.  
 New York, N. Y.  
 Bound Brook, N. J.  
 New Rochelle, N. Y.  
 Richlands, Va.  
 Ft. Monmouth, N. J.  
 Stantonsburg, N. C.  
 White Gate, Va.  
 Orlando, Fla.  
 Washington, D. C.  
 Deep Gap, N. C.  
 Ararat, N. C.  
 Jacksonville, Fla.  
 New Orleans, La.  
 Arlington, N. J.  
 Pelzer, S. C.  
 Warsaw, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Ridgefield, N. J.  
 Berwick, Pa.  
 New Rochelle, N. Y.  
 East Quogue, N. Y.  
 Bahama, N. C.  
 St. Louis, Mo.  
 Greensboro, N. C.  
 Charlotte, N. C.  
 Leaksville, N. C.



Thomas, Pendleton Jones, Jr. 5	Savannah, Ga.
Thomas, Richard Frank, Jr. 0	Winston-Salem, N. C.
Thomas, Robert Charles 2	Little Neck, N. Y.
Thomas, Royce P. 0	Jacksonville, Fla.
Thomas, Theodore Hubert 0	Nelsonville, Ohio
Thompson, Blaine Calvin 3	Cleveland Heights, Ohio
Thompson, Edwin Spencer 4 E	Durham, N. C.
Thompson, Elwood Reynolds 6 E	Wilmington, Del.
Thompson, Harold B. 5	Hallsboro, N. C.
Thompson, James E. 4	Oak Hill, W. Va.
Thompson, Joseph Walter 7	Charleston, W. Va.
Thompson, Oscar M. 6 E	Rockingham, N. C.
Thompson, Robert Leon, Jr. 0	Anderson, S. C.
Throckmorton, Charles Withers, III 2	Richmond, Va.
Throneburg, James C. 6	Kings Mountain, N. C.
Tickle, Dewey Reid 2	Burlington, N. C.
Tickin, Boyd L. 6 E	Durham, N. C.
Tilghman, David Griffiths 1	Upperca, Md.
Tillinghast, Arthur 6 E	Indian Rocks, Fla.
Timothy, J. T. 5	Birmingham, Ala.
Tingen, Clarence Aubrey 4 E	Durham, N. C.
Tippy, Harold Glenn 2	Mountain Lakes, N. J.
Tissot, Robert H. 6	New Rochelle, N. Y.
Todd, John Isaac 0	Jacksonville, Fla.
Tomlinson, Charles John 0	Malverne, N. Y.
Tomlinson, Russell C. 6 E	Bloomfield, N. J.
Toms, Edgar Shelton, Jr. 2	Durham, N. C.
Toms, George N. 1	Durham, N. C.
Tooker, John Taylor 5	New York, N. Y.
Torgerson, Torger Edward 6 E	Duluth, Minn.
Touchstone, John N., Jr. 0	Dallas, Texas
Townsend, Donald H. 2 E	Wynnewood, Pa.
Townsend, James Joye 2	Jacksonville, Fla.
Trainer, John Carlton, Jr. 6	Collingswood, N. J.
Tranter, Ben G., Jr. 0	Franklin, Ind.
Traub, Henry Willis 4	Auburn, N. Y.
Treat, Charles William 2 E	Port Huron, Mich.
Treleaven, Phillips Albert 4	Oak Park, Ill.
Trenkmann, Edward 5	Larchmont, N. Y.
Tribble, Willie Mack, Jr. 4	Forsyth, Ga.
Trigg, William G. 6	St. Petersburg, Fla.
Trippel, Gerald E. 4 E	Forest Hills, N. Y.
Tronolone, Nick 2 E	Palisade, N. J.
Tropman, John R. 4	Durham, N. C.
Trusk, George 4 E	Chicago, Ill.
Tsangariss, Neofytus Theodore 0	Tarpon Springs, Fla.
Tubb, David L. 4 E	Charleston, W. Va.
Tucker, Donald Wood 2	Goldsboro, N. C.
Tucker, Perry Alan 0	Wadesboro, N. C.
Tulenko, Thomas Steve 2	Washington, D. C.
Tully, William Franklin 2	Charleston, W. Va.
Turner, Harlan R., Jr. 6 E	Atlanta, Ga.
Turner, Harry 1	Greensboro, N. C.
Turpin, David Howard 6	Bedford, Va.
Tutan, Charles B., Jr. 4	Miami, Fla.
Tuthill, David Foster 0	Pittsburgh, Pa.
Tuttle, William Brock 4	Charlotte, N. C.
Tuttle, William Sharp 0	Sharpsburg, Ky.
Turbidy, John B. 4	Rome, Ga.
Tybout, Frederick A. 2	Tampa, Fla.

- Tyler, Franklin A., Jr. 0  
 Tymosko, Donald Michael 0  
 Tyndall, Rommie Winfred 7  
 Tyson, Edwin Louis 6  
 Tyson, George Hart 2  
 Tyson, Joseph Blake 4  
 Underwood, George Dewey, Jr. 2  
 Underwood, Jack Lawrence 2  
 Underwood, John Thomas 4 E  
 Upchurch, Roger S. 5  
 Upchurch, Thomas C. 6  
 Urban, James A. 5  
 Van Alstyne, James Linton 0  
 Van Buren, Wesley C. 2 E  
 Van Camp, David 0  
 Van Camp, George D. 6  
 Van Camp, Stephen 1  
 Van Der Beck, Karl 2  
 Vandernoot, Theodore John 2  
 Van Dyck, Robert Laird 2 E  
 Van Fossen, Richard Waight 6  
 Van Horn, William Lewis 0  
 Van Skike, Robert Bruce 2  
 Van Steenburgh, Richard Paul 6  
 VanZandt, Thomas Edward 4  
 Vasquez, Hector 6  
 Vaughan, Earl J. 7  
 Vaughan, Joseph Lynwood 0  
 Vaughan, William Earl 0  
 Vaughan, William Norman, Jr. 4  
 Vaughn, Howard Amole 0  
 Veith, Frank Herman 2  
 Verner, John Victor, Jr. 5  
 Verran, Harry Elliott 0  
 Viau, Louis John 2  
 Vigiano, Dante 2  
 Vilas, John M. 0  
 Vincent, Roger Vollmer 2  
 Vollmer, Donald M. 5  
 Wade, Henry O. 8  
 Waggoner, Oren Thomas 4  
 Wagner, Andrew John 2 E  
 Wagner, John Albert 1  
 Wagner, Robert Charles 0  
 Wagoner, G. R. 2  
 Walker, Charles Richard 6  
 Walker, Earl N. 5  
 Walker, Emanuel Jaynes 2 E  
 Walker, Fred McKinley, Jr. 7  
 Walker, Joseph Edwards 2  
 Walker, Paul C. 4  
 Walker, Robert Johnstone 0  
 Walker, William B. 6  
 Wall, Arthur J., Jr. 8  
 Wall, Richard David 4 E  
 Wallingford, Thomas R. 4  
 Walrond, Alan Lambert 2  
 Waltman, Ray H. 4 E  
 Walton, Loring Baker 6  
 Wamsley, Frank Singleton 2  
 Richmond, Va.  
 Oxford, Conn.  
 Durham, N. C.  
 Greenville, N. C.  
 Biscoe, N. C.  
 Charlotte, N. C.  
 Holland, Va.  
 Albany, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Miami, Fla.  
 Irvington-on-Hudson, N. Y.  
 Durham, N. C.  
 Pittsburgh, Pa.  
 Southern Pines, N. C.  
 Southern Pines, N. C.  
 East Orange, N. J.  
 Brooklyn, N. Y.  
 Petersburg, Va.  
 Washington, D. C.  
 Uniontown, Pa.  
 Bradenton, Fla.  
 Durham, N. C.  
 Miami, Fla.  
 New York, N. Y.  
 Orlando, Fla.  
 Durham, N. C.  
 Hartford, Ky.  
 Garysburg, N. C.  
 High Point, N. C.  
 Philadelphia, Pa.  
 Danville, Va.  
 Middlesboro, Ky.  
 New Orleans, La.  
 Panama, Central America  
 Tenaflly, N. J.  
 Kenosha, Wis.  
 Mt. Lebanon, Pa.  
 Morehead City, N. C.  
 Charlotte, N. C.  
 Baltimore, Md.  
 Baltimore, Md.  
 Irvington, N. J.  
 Beaver Falls, Pa.  
 Winston-Salem, N. C.  
 Mullen, Ga.  
 Oriental, N. C.  
 Atlanta, Ga.  
 Ellenboro, N. C.  
 Winston-Salem, N. C.  
 Brooklyn, N. Y.  
 Bridgeport, Conn.  
 Honesdale, Pa.  
 Baltimore, Md.  
 Maysville, Ky.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Tulsa, Okla.

Waner, P. G. 2 E  
 Wanzer, Philip H. 7  
 Wanzer, Sidney Hovey 2  
 Ward, John A. 5  
 Ward, James William 4  
 Ward, Robert Lee 7  
 Ward, Robert Paul 7  
 Ward, William Milton 0  
 Ward, W. R., Jr. 4  
 Ware, Henry Neill 2  
 Ware, James G. 4  
 Warlick, William Lee 5  
 Warmath, John Thomas, Jr. 2  
 Warnick, Edward E. 4 E  
 Warren, Harold Flack, Jr. 1  
 Warren, Julian M. 6 E  
 Warta, Clarence Emmett 6  
 Wastler, T. Allen 4  
 Watkins, Charles Eugene, Jr. 0  
 Watkins, John Kenneth, Jr. 2 E  
 Watson, David Farl 0  
 Watson, John Eugene, Jr. 6 E  
 Watson, Penn Thomas, Jr. 4  
 Watts, J. S., Jr. 6 E  
 Watts, William Logan 3  
 Waugh, John Blair 5  
 Way, Charles B. 4  
 Weaver, Lucius Stacy 2  
 Webb, Edwin H. 4  
 Webb, Frank Maury 0  
 Webb, Richard Davis 2  
 Weber, Wheeler Davis 2 E  
 Webster, Frank M. 2  
 Webster, John Neil 0  
 Webster, Richard Carlton 2  
 Webster, William Frank, Jr. 5  
 Wechsler, Leonard B. 6  
 Weekley, Augustine S., Jr. 2  
 Weidlich, William Robert 0  
 Weidman, Frank C. 0  
 Weidman, John Charles 2  
 Weimann, Robert Bruce 0  
 Weinberg, Carroll Arnold 7  
 Weiss, James Owen 0  
 Welch, George H., Jr. 7  
 Welch, Gordon Kennedy 4  
 Weldon, Robert Walter 0  
 Wells, Allison Deans 0  
 Wells, Joseph F. 6 E  
 Wells, William Eston, Jr. 8  
 Welsh, John F. 2  
 Werk, George Bennett 6  
 Wesley, James Arden 2  
 Wessinger, James Arnold 8  
 Weststrom, William Wallace 0  
 West, Raymond Troy 6 E  
 Westervelt, Sheldon 0  
 Westhall, James Edmund 4  
 Westlin, William F. 4  
 Westmoreland, William V., Jr. 2 E

Sarasota, Fla.  
 Durham, N. C.  
 Charlotte, N. C.  
 Walkertown, N. C.  
 Fayetteville, Tenn.  
 River Edge, N. J.  
 Detroit, Mich.  
 Bristol, Tenn.  
 Lakeland, Fla.  
 Falls Church, Va.  
 Asheville, N. C.  
 Newton, N. C.  
 Greensboro, N. C.  
 Rochester, N. Y.  
 Merchantville, N. J.  
 Spring Hope, N. C.  
 Lindenhurst, N. Y.  
 Pensacola, Fla.  
 Draper, N. C.  
 Durham, N. C.  
 Okmulgee, Okla.  
 Mullins, S. C.  
 Wilson, N. C.  
 Ivanhoe, Va.  
 Louisville, Ky.  
 Galax, Va.  
 Waynesville, N. C.  
 Durham, N. C.  
 Roanoke Rapids, N. C.  
 Lake Wales, Fla.  
 Mamaroneck, N. Y.  
 Cumberland, Md.  
 Durham, N. C.  
 Statesville, N. C.  
 Rochester, N. Y.  
 Durham, N. C.  
 McKeesport, Pa.  
 Tampla, Fla.  
 Plainfield, N. J.  
 Winchester, Mass.  
 Winchester, Mass.  
 Haddon Heights, N. J.  
 Baltimore, Md.  
 Memphis, Tenn.  
 Anderson, S. C.  
 Coral Gables, Fla.  
 Meriden, Conn.  
 Wilson, N. C.  
 Havertown, Pa.  
 St. Petersburg, Fla.  
 Valdosta, Ga.  
 Miami Beach, Fla.  
 Indianapolis, Ind.  
 Albemarle, N. C.  
 Washington, N. Y.  
 Durham, N. C.  
 Oradell, N. J.  
 Lakewood, N. J.  
 Stratford, Conn.  
 Goldsboro, N. C.

- Wetmore, William Stratton 0  
 Whalen, Walter Fintan 7  
 Whalen, William Anthony, Jr. 6  
 Whanger, Alan Duane 0  
 Wheaton, Scott Rodgers 2  
 Whetstone, Walter 2  
 Whitaker, A. Jackson 1  
 Whitaker, O'Kelley 5  
 Whitaker, Richard Young 6  
 White, Arthur R., Jr. 4 E  
 White, Charles P. 7  
 White, Edgar Farrell 2  
 White, Frank Paul 3  
 White, John Edward 2 E  
 White, Johnnie Robert 2  
 White, Raymond Herbert, Jr. 2 E  
 White, Robert Arlen 2  
 White, Robert C. 5  
 White, William Foster, Jr. 2  
 Whitehead, Jefferson Dickert 2  
 Whitener, Fred William 7  
 Whitescarver, James Field, Jr. 0  
 Whitley, Clyde Thomas 0  
 Whitney, James Lloyd 2  
 Whittle, Howard H. 7  
 Wicker, Max William 6  
 Widner, Ralph Randolph 0  
 Wiita, Robert Matthew 0  
 Wilcox, Charles Hamilton 4  
 Wild, Glenn Amos 0  
 Wilder, Buna Joe 2  
 Wile, Homer Wayne 2  
 Wiles, Ben M. 2  
 Wilkerson, Albert E. 4  
 Wilkerson, Ralph Rollins 2  
 Wilkin, Robert C. 4  
 Willeford, Brice J. 5  
 Williams, Ben L. 4  
 Williams, Bill R. 4 E  
 Williams, Charles Ayres, Jr. 0  
 Williams, Charles Judson 0  
 Williams, Darrell B. 4  
 Williams, Earl LeRoy 0  
 Williams, Earlwood Robbins 6 E  
 Williams, Jean B. 4  
 Williams, John Charles 0  
 Williams, John Wesley 0  
 Williams, Kenneth Trotter 8  
 Williams, Martin George, Jr. 2  
 Williams, Thomas D. 7  
 Williams, Webster D. 5  
 Williamson, Cecil Floyd 4 E  
 Williamson, Lamont Wells 2  
 Williamson, Max L. 4 E  
 Wills, Bruce Baxter 0  
 Wilmor, William B. 2 E  
 Wilson, Charles Howe 1  
 Wilson, Dwight R. 0  
 Wilson, Gordon B. 7 E  
 Wilson, Hubert Leroy 4 E  
 New Rochelle, N. Y.  
 Philadelphia, Pa.  
 New Britain, Conn.  
 Cleveland, Ohio  
 Stroudsburg, Pa.  
 Wayne, Pa.  
 Fayetteville, Tenn.  
 Durham, N. C.  
 Ocilla, Ga.  
 Richmond, Va.  
 Rochester, N. Y.  
 Concord, N. C.  
 Unadilla, N. Y.  
 Covington, Ky.  
 Danville, Va.  
 White Plains, N. Y.  
 Baltimore, Md.  
 Greensboro, N. C.  
 Merritt Island, Fla.  
 Cleveland Heights, Ohio  
 Shelby, N. C.  
 Baltimore, Md.  
 Siler City, N. C.  
 Parkersburg, W. Va.  
 Concord, N. C.  
 Aberdeen, N. C.  
 Camp Lejeune, N. C.  
 Monessen, Pa.  
 Atlanta, Ga.  
 Pittsburgh, Pa.  
 Gainesville, Fla.  
 Petrolia, Pa.  
 Burlington, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Steubenville, Ohio  
 Kannapolis, N. C.  
 Oxford, N. C.  
 Charlotte, N. C.  
 Hamden, Conn.  
 San Mateo, Calif.  
 Faith, N. C.  
 Jacksonville, Fla.  
 Norfolk, Va.  
 Hendersonville, N. C.  
 Raleigh, N. C.  
 Flint, Mich.  
 Charlotte, N. C.  
 Jacksonville Beach, Fla.  
 Birmingham, Ala.  
 Durham, N. C.  
 Cerro Gordo, N. C.  
 Rocky Mount, N. C.  
 Creston, Iowa  
 Erwin, Tenn.  
 Baltimore, Md.  
 Rochester, N. Y.  
 Mount Vernon, N. Y.  
 Durham, N. C.  
 Durham, N. C.



Wilson, James Robert	5	Greenville, S. C.
Wilson, Plato S.	4	Morganton, N. C.
Wilson, Robert L.	6	Maplewood, N. J.
Wilson, Walter Grier	6 E	Charlotte, N. C.
Windom, Robert Emerson	0	St. Petersburg, Fla.
Winkler, Hubert Erwin	2 E	Lenoir, N. C.
Winn, Richard Morrow, Jr.	4	Clarksville, Tenn.
Winter, William O.	4	Winterville, Ga.
Wise, John S.	6 E	Durham, N. C.
Wise, Walter Robertson	2 E	Newport News, Va.
Withers, Christopher	0	Port Washington, N. Y.
Withers, Donald Erwin	6	Fairmont, W. Va.
Withers, W. Kenney	2	Jacksonville, Fla.
Witherspoon, Loy Hahn	2	Winston-Salem, N. C.
Withrow, Pat Berry, III	2	Charleston, W. Va.
Witter, Robert LaMotte	0	Catonsville, Md.
Wittman, John Kenneth	2	Oradell, N. J.
Wolfe, Thomas Redwine	2	Albemarle, N. C.
Wolff, Robert Alpha	0	Great Neck, N. Y.
Wolmering, Robert John	2 E	Dunkirk, N. Y.
Womack, William G.	5	Sanford, N. C.
Womble, William Lansden	2	Winter Haven, Fla.
Wong, Wendell Gordon	7	Moraval, Trinidad
Wood, Roy Stanley	0	Jacksonville, Fla.
Wood, Thomas E.	4 E	Durham, N. C.
Wood, Whitehill Thompson	0	Annapolis, Md.
Wood, William Clark	2	Greenwich, Conn.
Wood, William Moncrief	2	Atlanta, Ga.
Woodbury, Philip S.	6	Pearisburg, Va.
Woodfield, Roland Lawton	2 E	Washington, D. C.
Woodley, William Thomas	7	Elizabeth City, N. Y.
Woodworth, John Kennedy	2	Erwin, N. C.
Woolard, Jodie D., Jr.	6	Williamston, N. C.
Woolard, Jordan Marion	4	Richmond, Va.
Wooten, Elmer Macon	4	Hookerton, N. C.
Wooten, Shade Isler	4	Asheville, N. C.
Worsham, J. Berry	4	Ruffin, N. C.
Worthey, Eugene Burton	0	San Francisco, Calif.
Wright, William Ellison	0	Little Rock, Ark.
Wright, Harry Buford	6	Rome, Ga.
Wright, Robert T.	4 E	Chattanooga, Tenn.
Wuchte, John I.	4 E	Philadelphia, Pa.
Wynn, Robert S.	4	Ruston, La.
Yarnell, Richard Asa	2	Charleston, S. C.
Yates, James Jefferson	4	Durham, N. C.
Yeager, Bearl Alvin	6	Binghamton, N. Y.
Yeates, Clarence Owen	0	Norfolk, Va.
Yergey, David Arthur	0	Orlando, Fla.
Yevich, Eugene Edward	3	Berwick, Pa.
Yongue, Robert Eugene, III	4	Laurinburg, N. C.
York, Scott R.	2	Chagrin Falls, Ohio
Yorke, Douglas Arthur	6	Scarsdale, N. Y.
Youmans, Corren P.	4 E	Miami, Fla.
Young, Alvin Martin	0	Trenton, N. J.
Young, Charles Denman	3	Charlotte, N. C.
Young, Hugh Claude	0	Charlotte, N. C.
Young, James Morningstar	2	Massillon, Ohio
Young, Linville F.	6	Durham, N. C.
Young, Loren D.	7	Logan, W. Va.
Young, Robert Everett	2	Charleston, W. Va.

Younger, Kenneth G.	6	Tampa, Fla.
Yourison, James E.	2 E	Pittsburgh, Pa.
Yudell, Robert B.	4	New Bern, N. C.
Zahner, Robert	4	Highlands, N. C.
Zavertnik, Otis Vernon	0	Englewood, N. J.
Zelter, A. Richard		New York, N. Y.
Ziolkowski, Theodore Joseph	0	Montevallo, Ala.

### Spring Semester, February-June, 1949

("E" denotes those enrolled in the College of Engineering. Number shows semesters completed.)

Abbott, William F.	4	Salem, Mass.
Abe, Jack M.	5	Dayton, Ohio
Adam, Raymond Carl	7	Irvington, N. J.
Adams, Charles A., Jr.	1	Pleasantville, N. Y.
Adams, Morgan R.	3	Louisville, Ky.
Adams, Nelson Falls	3	Charlotte, N. C.
Adams, Thornton D.	7	Carthage, N. C.
Adamson, Claude Max	5 E	Good Water, Ala.
Adcock, Louis Henry	3	Durham, N. C.
Adkins, Eli Richard	3	Pony, Mont.
Ahern, Edward F., Jr.	3	Worcester, Mass.
Ahrenholz, Leslie T.	3	Middletown, N. Y.
Albrecht, Ewart Alphonso	1	Portsmouth, Va.
Aldridge, Clyde L.	7	Leland, Miss.
Alexander, Charles T., Jr.	5	Indianapolis, Ind.
Alexander, Uhlman S.	1	Charlotte, N. C.
Alger, John	7	Huntington, N. Y.
Allen, Frank Conrad	2	Washington, D. C.
Allen, I. Dayton	1	McKeesport, Pa.
Allen, James Edward	3	Barrington, R. I.
Allen, Joe Land	3	Burlington, N. C.
Allen, Louis E.	4	Greensboro, N. C.
Allen, Philemon Macon, Jr.	2	Washington, D. C.
Allen, Richard C.	3	Wichita, Kan.
Allen, Robert H.	5	Baldwinsville, N. Y.
Allin, James Lander, Jr.	5	Lakeland, Fla.
Allison, Raymond Dean	1	Washington, D. C.
Allison, Ronald Eugene	0	Shaker Heights, Ohio
Allred, Roger Howard		Durham, N. C.
Almquist, Henry G.	Spec.	Brooklyn, N. Y.
Ames, Robert Shelton	3	Beckley, W. Va.
Ancrum, Thomas Douglas	5	Camden, S. C.
Anderson, Dean Floyd	5 E	Cottage Grove, Ore.
Anderson, Jack F.	8	North Wilkboro, N. C.
Anderson, Robert	3	Lynn, Mass.
Anderson, Robert Eugene	1	Wheeling, W. Va.
Andrews, Frederick Clifford	3 E	Old Greenwich, Conn.
Appen, Ray C.	Spec.	Columbia, Ky.
Archambault, Norman	2	West Warwick, R. I.
Armstrong, Pete Robertson	3	High Point, N. C.
Ashe, Vance B.	2	Asheville, N. C.
Ashley, Larry Lee	1	Greenville, S. C.
Atwood, John Warren	7	Winsted, Conn.
Ausbon, Douglas Hix	8	Durham, N. C.
Autry, Elwin Benjamin	3 E	Durham, N. C.
Austin, James Jackson	7	Kingsport, Tenn.
Aycock, Ezra Kenneth	6	Pinewood, S. C.
Aycock, William Glenn	7	Fremont, N. C.
Ayers, John Clifford, Jr.	3	Tabor City, N. C.

- Ayers, Milton Edward 5  
 Ayerst, Robert I. 7  
 babykin, Anatole Gregory 6 E  
 Bafford, Edward Donald 1  
 Baggs, Donald Thompson 5  
 Bailey, Raymond B. 3 E  
 Baily, Alfred E. 7 E  
 Bain, David Edward 3  
 Bain, Willis Robinson, Jr. 3  
 Baird, Bruce K. 3  
 Baker, F. Richard 5  
 Baker, Gordon 1  
 Baker, Harrell W. 1  
 Baldwin, Jackson Lee 2  
 Baldwin, William Lee 3  
 Ball, Walter Herbert 1  
 Ballard, William Ed 2  
  
 Bangle, Robert Edward 1  
 Banks, John Joseph 1  
 Banks, Sam Alston 6  
 Bannister, Thomas Turpin 1  
 Banthin, Clifford Richard 1  
 Baptiste, Ronald P. 4  
 Barbee, Robert E., Jr. 6  
 Barber, Harold 5  
 Barber, John W., Jr. 7  
 Barden, Charles S. 5  
 Barfield, Victor Warren 1  
 Barker, Charles Warwick 7  
 Barker, Robert Marvin 1  
 Barnard, Bruce Donald 5  
 Barnard, George William 7  
 Barnes, Albert Ernest 7 E  
 Barnes, Don Bishop 5  
 Barnes, Robert Lloyd 5  
 Barnes, Sidney Edwin 5  
 Barnes, Wallace Ray 5  
 Baroff, Philip 3  
 Barranco, Frank Thomas 1  
 Barrett, Alfred James, Jr. 1  
 Barry, Earnest Harry 1  
 Bartel, Frank O. 8  
 Bartlett, William Merman 7 E  
 Barwick, Howard Eugene 1  
 Batchelor, William M. 5  
 Bates, Robert Kenneth 1  
 Batten, Emmett LeGray 3 E  
 Batten, John Edward, III 4  
 Bauer, Eugene Joseph 6  
 Baughman, Charles B. 7  
 Baumberger, Charles McClay 3  
 Baynes, James R. 7  
 Baynes, Walter W., Jr. 7  
 Beal, Jesse Capps 1  
 Beam, Joe C. 7  
 Bean, William R. 5  
 Bear, Larry Allen 7  
 Beaumont, Jacques D. 5  
 Becher, George David 1  
  
 Bloomfield, N. J.  
 Connellsville, Pa.  
 Long Island City, N. Y.  
 Baltimore, Md.  
 St. John's, Newfoundland  
 Bristol, Conn.  
 Carmichaels, Pa.  
 Williamsville, N. Y.  
 Petersburg, Va.  
 Fredonia, N. Y.  
 Hendersonville, N. C.  
 Ventnor City, N. J.  
 Durham, N. C.  
 Wilmington, N. C.  
 Durham, N. C.  
 Fayetteville, N. C.  
 White Sulphur Springs,  
 W. Va.  
 Concord, N. C.  
 Greenwich, Conn.  
 Lakeland, Fla.  
 Urbana, Ill.  
 Bridgeport, Conn.  
 Hong Kong, China  
 Pittsburgh, Pa.  
 Gulfport, Miss.  
 Anderson, Ind.  
 Asheville, N. C.  
 LaGrange, N. C.  
 Lumberton, N. C.  
 Lumberton, N. C.  
 Durham, N. C.  
 Cramerton, N. C.  
 Washington, D. C.  
 Wilson, N. C.  
 Royersford, Pa.  
 Wilson, N. C.  
 Stewartstown, Pa.  
 Bridgeport, Conn.  
 Baltimore, Md.  
 Washington, D. C.  
 Baltimore, Md.  
 Spartanburg, S. C.  
 Charlotte, N. C.  
 Miami, Fla.  
 Greenville, N. C.  
 Mount Vernon, N. Y.  
 Durham, N. C.  
 Welch, W. Va.  
 Chicago, Ill.  
 Elizabethton, Tenn.  
 Charleston, W. Va.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Nashville, N. C.  
 Beaufort, N. C.  
 Durham, N. C.  
 Wakefield, Mass.  
 Wellsville, Ohio  
 Longmeadow, Mass.

- Beck, Bobby Gene 1  
 Beck, Charles Edward 1  
 Beck, Wade Hampton, Jr. 3  
 Beck, William Harvey 4  
 Becker, John William 5  
 Bell, Alvin York 1  
 Bell, Carl Wendell, Jr. 1  
 Bell, William B., Jr. 7  
 Bell, William Goebel 1  
 Bello, Harold A. Spec.  
 Bene, Kalman J. 7  
 Benfer, Norman A., Jr. 3  
 Bennett, Calvin Fletcher 2  
 Bennett, David G. 5  
 Bensinger, Robert G. 3  
 Bergeron, William L. 3  
 Bergstrom, Jack W. 5  
 Berlin, Melvin 5  
 Berman, Elliott 3  
 Berne, Edgar 7  
 Berry, Maxwell Kennedy 1  
 Best, Edward G. 7  
 Best, John Hardin 3  
 Best, Lee James 1  
 Best, Richard Kenneth 5 E  
 Bianchi, Richard E. 5  
 Bickel, Robert Arthur 1  
 Biddison, Mark 3  
 Biggers, William J. 7  
 Biggs, Joseph Lewis 5 E  
 Binda, George Edward 2  
 Bingaman, John W. 6  
 Bingham, Alvin L., Jr. 7 E  
 Bingman, Kenneth Ronald 3  
 Bird, Jack Harold 6  
 Bitker, Alexander Joseph 5  
 Bitter, Edwin Ward 1  
 Blackard, Embree Hoss Spec.  
 Blackburn, John O. 3  
 Blackmon, Stephen K. 4  
 Blackwell, LeRoy Erlinson, Jr. 3 E  
 Blair, Richard Mitchell 3  
 Blalock, William Shaw 1  
 Blanchard, Ralph W., Jr. 2  
 Bland, Billy Ray 0  
 Bland, Bruce Francis 3  
 Blank, Arthur E. Spec.  
 Blankenship, John S., Jr. 5 E  
 Blaylock, Dan W. 3  
 Bliss, George Y. 4  
 Bloise, Jose Armando 3  
 Bloom, Howard 1  
 Blount, Gerald R., Jr. 5  
 Bobbitt, Joseph Irvin 3  
 Bodenhamer, David Lee 1  
 Bodfish, Ralph E. Spec.  
 Boehling, William Anthony 6  
 Boehm, James V., Jr. 1  
 Boger, John R. 5  
 Bolyard, Paul Kenneth 7 E  
 Durham, N. C.  
 Harrisburg, Pa.  
 Belmont, N. C.  
 Fayetteville, N. C.  
 Marietta, Ohio  
 Greer, S. C.  
 Raleigh, N. C.  
 Atlanta, Ga.  
 Norwood, Ohio  
 Durham, N. C.  
 Durham, N. C.  
 Maplewood, N. J.  
 Albemarle, N. C.  
 Charlotte, N. C.  
 New Rochelle, N. Y.  
 Greenwich, Conn.  
 Charleston, W. Va.  
 Savannah, Ga.  
 Houlton, Me.  
 Woodhaven, N. Y.  
 Morganfield, Ky.  
 Goldsboro, N. C.  
 Little Rock, Ark.  
 Dunn, N. C.  
 Quincy, Ill.  
 Guatemala City, C. A.  
 Reading, Pa.  
 New York, N. Y.  
 Dalton, Ga.  
 Durham, N. C.  
 Medford, Mass.  
 Reading, Pa.  
 Albany, N. Y.  
 Bridgeport, W. V.  
 Durham, N. C.  
 San Francisco, Calif.  
 West Orange, N. J.  
 Gastonia, N. C.  
 Miami, Fla.  
 Durham, N. C.  
 Miami, Fla.  
 Warren, Pa.  
 Lexington, N. C.  
 Paw Creek, N. C.  
 Durham, N. C.  
 Miami, Fla.  
 Newport, R. I.  
 Rock Hill, S. C.  
 Lakewood, Ohio  
 Roslyn, N. Y.  
 Rio Piedras, P. R.  
 Mt. Vernon, N. Y.  
 Arlington, Va.  
 Wilmington, N. C.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Richmond, Va.  
 Zelenople, Pa.  
 Concord, N. C.  
 Glen Dale, Md.



- Boone, Charles C. 2  
 Borden, Windsor John 2  
 Borst, Robert M. 3 E  
 Borstell, Hans J. 5  
 Bortner, John G. 7  
 Bosamer, Clarence W. 5  
 Bosinski, Edwin Ernest 3  
 Bossart, James A. 7  
 Bourland, William Lee 3  
 Bovaird, George C. 3  
 Bowers, Gilmore 3 E  
 Bowles, Robert W. 7 E  
 Bowling, Lewis L. 5  
 Bowling, Robert F. 5  
 Bowman, Lawrence C. 3  
 Box, Klay K. K. 6  
 Boyce, Robert R. R. 3  
 Boyd, Frederick Daniel 3  
 Boyles, James McG. 5  
 Boynton, John G. 5  
 Boynton, John Howe 1  
 Brackney, William Austin 4  
 Bradbury, William Chase 3 E  
 Bradford, Harold Keith 1  
 Bradley, Emmett H. 7 E  
 Brady, James A., Jr. 9  
 Bragg, Sidney Harold 7 E  
 Branch, Bobby C. 4  
 Brandt, LeRoy M. 5  
 Branham, John T., Jr. 5  
 Branham, William Dennis 8  
 Brawley, James Otto 5  
 Bray, Henry Woodall, Jr. 4  
 Brazis, Michael Douglas 3  
 Brewer, Charles L. 5  
 Brewer, James Lambe 8  
 Brice, Charles Carroll 1  
 Brice, George Wilson, Jr. 8  
 Brickman, Thayer Ellis 1  
 Bridge, John H. 5  
 Bridges, Charles Adams 1  
 Bridges, Edwin Burke 1  
 Bridges, Warren Donald 1  
 Briggs, James Ethelbert 3  
 Briggs, Marcellus Arnold, Jr. 1  
 Bright, James Golden 4  
 Brill, William 1  
 Brinson, Walter Jackson 3  
 Britt, Bill C. 3  
 Brock, Aaron Joseph 3  
 Broderson, Robert Maurice 4  
 Brokenshire, Melvyn Royal 1  
 Bronson, Richard A. 7  
 Brooks, Eugene Clyde, III 1  
 Brooks, George Harris, III 1  
 Brooks, James Walter, Jr. 5 E  
 Brooks, Sidney B. 3  
 Brooks, Val Carlton 1  
 Browder, Leslie Ephrium 1  
 Brown, Bernard Owen 1  
 Boone, N. C.  
 Oswego, N. Y.  
 Narberth, Pa.  
 Babylon, N. Y.  
 York, Pa.  
 Gastonia, N. C.  
 Shamokin, Pa.  
 Cuyahoga Falls, Ohio  
 Winter Garden, Fla.  
 Bradford, Pa.  
 Winston-Salem, N. C.  
 Garden City, N. Y.  
 Durham, N. C.  
 Mt. Vernon, N. Y.  
 Jamaica Estates, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 Salisbury, N. C.  
 Orlando, Fla.  
 Woodbridge, N. J.  
 Plandome, N. Y.  
 Toledo, Ohio  
 Hopedale, Mass.  
 Minneapolis, Minn.  
 Hampton, Va.  
 Statesville, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Charleston, S. C.  
 Orlando, Fla.  
 Rocky Mount, N. C.  
 Winston-Salem, N. C.  
 Ben Hill, Ga.  
 South Boston, Mass.  
 Durham, N. C.  
 Siler City, N. C.  
 Annapolis, Md.  
 Charlotte, N. C.  
 Mattapan, Mass.  
 St. Petersburg, Fla.  
 Durham, N. C.  
 Thomasville, N. C.  
 Ravenel, S. C.  
 Raleigh, N. C.  
 Durham, N. C.  
 Rutherford College, N. C.  
 Locust Hill, Va.  
 Kenmore, N. Y.  
 Fairmont, N. C.  
 Raleigh, N. C.  
 West Haven, Conn.  
 Macon, Ga.  
 Miami, Fla.  
 Durham, N. C.  
 Apex, N. C.  
 Durham, N. C.  
 Wilson, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Grand Forks, N. D.

- Brown, Clarence F. 5  
 Brown, Edward B. 5  
 Brown, James M. 4  
 Brown, Lloyd Lee 7 E  
 Brown, Ralph Josiah, Jr. 2  
 Brown, Rollin L. 5  
 Brown, Samuel Hoyt 1  
 Brown, Walter Louis 1  
 Brown, William Eugene 1  
 Browne, Thomas Banks 3 E  
 Bruce, Logan Lithgow 5  
 Brumit, Horace C. 5  
 Brundage, Blair George 7  
 Brunson, Ronald Augustus 1  
 Bryan, Dillard B. 7  
 Bryan, William Arnold, Jr. 7 E  
 Bryant, Clyde Vernon 6  
 Bryant, Kendred Luter, Jr. 1  
 Bunchanan, Charles E. 7  
 Buchanan, John Creighton 3  
 Buchanan, Robert Roy 1  
 Buchanan, William Edward 7  
 Bugg, Richard Alexander, Jr. 7 E  
 Buie, James C. 3  
 Bukowitz, Marvin D. 3 E  
 Bullock, Henry L. 3  
 Bump, Stanley O. 3 E  
 Burdick, Alan T. 6  
 Burdick, Wallace Thurston 5  
 Burk, Robert S. 3  
 Burleson, Robert McClay 4  
 Burnett, Colbert H., Jr. 7  
 Burnett, John Carver 1  
 Burns, Franklin K. 5  
 Burrell, Eugene John 5  
 Buschman, Richard A. 1  
 Bush, Chandler M. 3 E  
 Bush, Robert Kenneth 3  
 Bushnell, George Dewey 3  
 Butler, Clifford Leroy, Jr. 1  
 Butler, William Warren 1  
 Butner, Oliver Leo, Jr. 5  
 Butry, Robert Earl 1  
 Butt, S. Page, Jr. 3 E  
 Buttner, James Hilton 1  
 Byerly, Charles T. 4  
 Byers, William Magness 1  
 Byrd, Jack L. 5  
 Byrd, James Samuel 5  
 Byrd, Robert C. 2  
 Cacak, Stanley John 7  
 Caffey, John William, Jr. 6  
 Cagle, Clarence B. 5  
 Cahill, John Edward, Jr. 3  
 Cahow, Clark R. 4  
 Calaway, Bill E. 3  
 Caldwell, Chester A. 5  
 Caldwell, Daniel Huffman 3  
 Calhoun, Dallas 5 E  
 Calhoun, Joel D. 5  
 Anderson, S. C.  
 Scranton, Pa.  
 Miami, Fla.  
 Erwin, Tenn.  
 Havertown, Pa.  
 Woodbridge, Va.  
 Tallapoosa, Ga.  
 Clarkton, N. C.  
 Winston-Salem, N. C.  
 Cherryville, N. C.  
 Ft. Sam Houston, Texas  
 Elizabethton, Tenn.  
 New York, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Raleigh, N. C.  
 Roanoke Rapids, N. C.  
 Hamlet, N. C.  
 Winstboro, S. C.  
 Bluefield, W. Va.  
 Charleston, W. Va.  
 Virginia Beach, Va.  
 Durham, N. C.  
 Baltimore, Md.  
 Durham, N. C.  
 Evansville, Ind.  
 New York, N. Y.  
 Englewood, N. J.  
 Washington, D. C.  
 Johnson City, Tenn.  
 Durham, N. C.  
 St. Petersburg, Fla.  
 Winston-Salem, N. C.  
 Eustice, Fla.  
 New Alexandria, Va.  
 Willoughby, Ohio  
 Merchantville, N. J.  
 Winnetka, Ill.  
 Wilmette, Ill.  
 Atlanta, Ga.  
 Sanford, Fla.  
 McKeesport, Pa.  
 Pleasantville, N. Y.  
 Baltimore, Md.  
 Durham, N. C.  
 Charlotte, N. C.  
 Marion, N. C.  
 Marion, N. C.  
 Ft. Lauderdale, Fla.  
 Fairbury, Neb.  
 Greensboro, N. C.  
 Green's Creek, N. C.  
 Litchfield, Conn.  
 Long Beach, Calif.  
 Winston-Salem, N. C.  
 Blytheville, Ark.  
 Blytheville, Ark.  
 St. Petersburg, Fla.  
 St. Petersburg, Fla.

Callahan, Charles E. 5 E	Hazardville, Conn.
Callahan, Daniel J. 8	West Concord, Mass.
Callaway, Paul Frederick 1	Belleville, Ill.
Calloway, Vern Daniel, Jr. 2	Balboa Heights, Canal Zone
Campbell, Clifford William 1	Beachwood, N. J.
Campbell, Craig Carol 8	University, N. C.
Campbell, Donald Adams 7 E	Chapel Hill, N. C.
Campbell, Everett C. 7 E	Durham, N. C.
Campbell, James Emerson 1	Reading, Pa.
Campbell, Lucian Paul 5	Wilmington, N. C.
Campbell, Raymond Harry, Jr. 3	Malverne, N. Y.
Campbell, Robert Duncan 3	Pelham Manor, N. Y.
Cannon, Kenneth F., Jr. 4 E	Washington, D. C.
Cannon, Philip Holland 3	Bridgeville, Del.
Cannon, Samuel E. 2	St. James, N. Y.
Capsalis, Aggie M. 5	Durham, N. C.
Capwell, Donald Bruce 5 E	Jamaica, N. Y.
Carloss, Frank I. 3	Salem, Ohio
Carpenter, Grady Sherdale 5	Concord, N. C.
Carpenter, Harry Everett 3 E	Newton, N. C.
Carpenter, Robert R. 1	Cherryville, N. C.
Carr, Frederick LaMont 5	Richmond, Va.
Carr, Thomas Laurence 8	Bangor, Pa.
Carrera, Carl H. 9	Tampa, Fla.
Carriker, Wallace L. 1	St. Louis, Mo.
Carroll, Harold W. 5	Hillsboro, N. C.
Carroll, James William, Jr. 5 E	Charlotte, N. C.
Carroll, John Norman 1	Malden, Mass.
Carson, Joseph Edwin 7 E	Danville, Va.
Carson, Richard T. 4	McKees Rocks, Pa.
Carswell, Abel Paul, Jr. 3	Durham, N. C.
Carter, Donald Sweetser 5	Towson, Md.
Carter, Luther Jordan 4	Charlotte, N. C.
Carter, Needham B. 6	Rocky Mount, N. C.
Carver, Marvin J., Jr. 3	Rougemont, N. C.
Cash, Leon Hartsell 7	Winston-Salem, N. C.
Caskey, Claude O'Dell Spec.	Martinsburg, W. Va.
Cates, Walter Elmer 3 E	Durham, N. C.
Catchcart, Edward R. 7	Anderson, S. C.
Cathey, Joseph B., Jr. 7	Alexandria, Va.
Cato, Paul James 5	Charlotte, N. C.
Cavaliere, Benjamin Albert 1	Norristown, Pa.
Cavanaugh, Edward Michael 3	Waterbury, Conn.
Celley, Albert F. 3	Valhalla, N. Y.
Chadwick, Harry Roberts, Jr. 5	Smyrna, N. C.
Chamberlain, B. Rhett, Jr. 3 E	Matthews, N. C.
Chamberlin, Frank H. 3	West Orange, N. J.
Chambers, Jack Horne 3	Clothier, W. Va.
Chambers, Robert Tillman 4	Milton, N. C.
Chambers, Thomas Hilary, Jr. 5	Winston-Salem, N. C.
Chambliss, H. Darden, Jr. 1	Oak Ridge, Tenn.
Chang, Ambrosio 1	Guatemala, C. A.
Chapman, Frank A. 5 E	Glens Falls, N. Y.
Chapman, Loren Max 7	Romney, Ind.
Chapman, Robert W. 5 E	Charlotte, N. C.
Chappell, William Henry 3 E	Durham, N. C.
Cheek, Ernest Calvin 7	Durham, N. C.
Cheek, Horace Leighton, Jr. 1	Durham, N. C.
Cheek, James Buchanan 6	Durham, N. C.
Cheek, Leon Clarence, Jr. 7 E	Chapel Hill, N. C.

- Cheek, Leon Theodore, Jr. 3  
 Cherry, Edwin A. 1  
 Chesson, Eugene, Jr. 5 E  
 Chick, Ernest W. 7  
 Chillingworth, Mehrtens Gould 8  
 Chittum, John Raymond 6  
 Chrisfield, Norman E. 3 E  
 Christakos, Arthur C. 3 E  
 Christener, Howard H. 5  
 Christy, Jack Smith 5 E  
 Christy, John H. 3  
 Critten, Ernest F., Jr. 5  
 Critten, John Evans 1  
 Clardy, Will J., Jr. 5  
 Clark, Banks Worth 5 E  
 Clark, Hamilton Yancey 7 E  
 Clark, John S. 5 E  
 Clark, Jonathan Yates 1  
 Clark, LaFrederick Russell 3  
 Clark, Robert Shields 7 E  
 Clark, Russell Claude 3  
 Clark, Seymour Garland, Jr. 3  
 Clark, William Henry 5  
 Clarke, David Fredrick 0  
 Clary, Guy Willis 7  
 Claughton, Edward N., Jr. 4  
 Clausen, Jay Donald 3  
 Clayton, Robert L. 5  
 Clement, William Norman, Jr. 1  
 Clendenin, William F. 7  
 Clifton, Yerger Hunt 1  
 Cline, Albert Purcell, Jr. 5  
 Clowar, John William 3  
 Coady, James M. 7  
 Cobetto, Jack Bernard 5  
 Coble, James Herbert 1  
 Coble, Russell Cooke, Jr. 6  
 Cochran, Norman Boöker 1  
 Coffee, James M. 5  
 Coffee, Robert Lee 4  
 Coggin, John R., Jr. 3  
 Cole, Benjamin T. 6  
 Colenda, Herbert F. 3 E  
 Collins, Howard William 1  
 Collins, Ira Taylor 5  
 Collins, Jesse Benjamin 7  
 Collins, William C. 7  
 Colvin, John T. 4  
 Combs, Richard L. 3 E  
 Conaway, Jack R. 3  
 Condon, Irvin Maurice 1  
 Conner, John Cecil 3  
 Connor, Robert Earl 5 E  
 Constantine, Thomas Moore 5  
 Conti, Angelo Louis 0  
 Conti, Gino Donti 1  
 Conway, William Frederick 5  
 Cook, Clark C. 7  
 Cook, Robert Darrow 3  
 Cook, Roger G. 7 E  
 Miami, Fla.  
 Tarboro, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Honolulu, T. H.  
 Champaign, Ill.  
 Gilbertsville, N. Y.  
 Batesburg, S. C.  
 Somerset, Pa.  
 Lake Village, Ark.  
 Andrews, N. C.  
 Birmingham, Mich.  
 Birmingham, Mich.  
 Pittsburgh, Pa.  
 Durham, N. C.  
 Lewiston, N. Y.  
 Wadesboro, N. C.  
 Leesburg, Fla.  
 Oxford, N. C.  
 Kent, Ohio  
 Billings, Mont.  
 Brooklyn, N. Y.  
 Scarsdale, N. Y.  
 Wheeling, W. Va.  
 Gaffney, S. C.  
 Miami, Fla.  
 Baltimore, Md.  
 Oak Grove, La.  
 Raleigh, N. C.  
 Statesville, N. C.  
 Jackson, Miss.  
 Canton, N. C.  
 Audubon, N. J.  
 Monument Beach, Mass.  
 Herminie, Pa.  
 Concord, N. C.  
 Concord, N. C.  
 Valdosta, Ga.  
 Jacksonville, Fla.  
 Jacksonville, Fla.  
 Durham, N. C.  
 Milltown, N. J.  
 Morehead City, N. C.  
 Newark, Ohio  
 Kingsport, Tenn.  
 Hazard, Ky.  
 Providence, R. I.  
 Washington, D. C.  
 Shaker Heights, Ohio  
 Parkersburg, W. Va.  
 Wildwood, N. J.  
 Baltimore, Md.  
 Johnstown, Pa.  
 Racine, Wis.  
 Hartford, Conn.  
 Phillipsburg, N. J.  
 Uniontown, Pa.  
 Durham, N. C.  
 Baldwin, N. Y.  
 Cranbury, N. J.



- Cooke, Clifton Noyes 1  
 Cooke, Dennis Hargrove, Jr. 3  
 Cooke, William F., Jr. 3 E  
 Cookerly, Thomas Bourne 5  
 Cooper, Albert Brandon 7 E  
 Cooper, Charles Staples 5  
 Cooper, Joseph S. 5  
 Cooper, Thomas Walker 1  
 Cope, William Warren 5  
 Copeland, Isaac Mathias, Jr. 5  
 Copenhaver, Edward H. 7  
 Copley, Harry Kerman, Jr. 4  
 Corbett, Howard Roger 3 E  
 Corrigan, Eugene 3  
 Corry, John Drake 1  
 Costis, Gus Tom 3  
 Cote, Daniel Narcisse 1  
 Cottman, Brooke Powell 1  
 Couleur, Edwin M. 3 E  
 Council, Robert E. 3  
 Council, William C. Spec.  
 Covington, William H., Jr. 7  
 Cox, Ernest Howard 1  
 Cox, John Tomlinson 5  
 Cox, John W. 3  
 Craddock, John G. 5  
 Craft, Thomas L., Jr. 6  
 Crandall, Chauncey W., III 1  
 Crandall, Milton Albert 3 E  
 Crane, James Dewar 1  
 Cranford, Henry Lee 7 E  
 Craniotis, George E. 7 E  
 Craun, Dwight Marvin 5  
 Crawford, Frank Teller 1  
 Crawford, Malcolm Francis 1  
 Crawford, Narvel James, Jr. 1  
 Creesy, William Martin 8  
 Crevasse, Lamar E., Jr. 5  
 Crew, Wilbur Henry 1  
 Crigger, Harry George 3  
 Crigler, Benner Bittinger 3  
 Crimmins, Frank Joseph 2  
 Criswell, Howard D. 7  
 Croft, John Lyle 6  
 Cromartie, Martin L. 4  
 Crook, James Rutland, Jr. 5  
 Cross, Eugene Boyce 7 (Spec.)  
 Cross, William Hoyle 1  
 Crowder, Richard Joseph 1  
 Crowe, Charles L. 5  
 Croy, Walter Harley 3  
 Culbreth, James Harold 10  
 Cummins, Charles Albert 1  
 Cummings, James H. 4  
 Currin, William Dodson 1  
 Curry, John Robert, Jr. 8  
 Curtis, A. L., Jr. 2  
 Cuyler, R. Duncan 3  
 Dabbs, Thomas McBride 5  
 Daftary, Djamshid 0  
 Danvers, Mass.  
 Greensboro, N. C.  
 Durham, N. C.  
 Birmingham, Mich.  
 Hamlet, N. C.  
 Raleigh, N. C.  
 Camden, N. J.  
 Tampa, Fla.  
 Mocksville, N. C.  
 Norfolk, Va.  
 Baltimore, Md.  
 Durham, N. C.  
 Wilmington, N. C.  
 Baltimore, Md.  
 Rocky River, Ohio  
 Ahoskie, N. C.  
 Arlington, Va.  
 Baltimore, Md.  
 Glendale, Calif.  
 Durham, N. C.  
 Durham, N. C.  
 Polkville, N. C.  
 Honea Path, S. C.  
 Mount Olive, N. C.  
 Mt. Airy, N. C.  
 Charlotte, N. C.  
 Bethel, N. C.  
 East Orange, N. J.  
 Staten Island, N. Y.  
 North Warren, Pa.  
 Winston-Salem, N. C.  
 Honduras, Central America  
 Durham, N. C.  
 Hartsville, S. C.  
 Wilmington, N. C.  
 Asheville, N. C.  
 Columbus, Ohio  
 Tampa, Fla.  
 Baltimore, Md.  
 Fort Sill, Okla.  
 Charlotte, N. C.  
 New York, N. Y.  
 Washington, D. C.  
 Jonesboro, Ark.  
 Tarboro, N. C.  
 Winston-Salem, N. C.  
 Fordtown, Tenn.  
 Bristol, Tenn.  
 High Point, N. C.  
 Durham, N. C.  
 Swannanoa, N. C.  
 Hillsboro, N. C.  
 Baltimore, Md.  
 Villanova, Pa.  
 Oxford, N. C.  
 High Point, N. C.  
 Gaffney, S. C.  
 Durham, N. C.  
 Mayesville, S. C.  
 Washington, D. C.

- Dailey, Henry E. 4  
 Daine, Donn David 1  
 Dale, Francis Edward 1  
 D'Alonzo, Albert F. 6  
 Damaskos, Nicholas Byron 1  
 Daniel, Eugene Thomas 1  
 Daniel, Joseph Marsh 8  
 Daniel, McRobert T. 6  
 Dannals, George Clark, Jr. 7 E  
 Dannenberg, Richard Bruce 1  
 Dark, Robert Hanner 4  
 Davidson, Lindell Alf 7 E  
 Davidson, Williams T., Jr. 1  
 Davies, Pete James 3  
 Davis, Arnold Van Osdal 5  
 Davis, Benjamin Brockman 1  
 Davis, Harold James 2  
 Davis, Hubert Vincent, Jr. 1  
 Davis, James H. 6  
 Davis, James William 6  
 Davis, Jolyon E. L. 1  
 Davis, Richard Amos 1  
 Davis, Richard D. 7  
 Davis, Robert B., Jr. 5  
 Davis, Robert Louis 1  
 Davis, Robert Paul 1  
 Davis, Roger Wesley 1  
 Davison, Alexander Thayer 9  
 Dawes, Kenneth J., Jr. 1  
 Day, Douglas F. 5 E  
 Dayton, Charles Cary 5  
 Deal, C. Pinckney, Jr. 1  
 Daen, Earnest W. 3  
 Dearmont, Nelson S., Jr. 1  
 Deaton, Donald Burette 7  
 DeCosier, Linton Henry 6  
 Dee, John B. 7 E  
 deGuzman, Robert John 3  
 DeLaughter, George D. 3  
 Delchamps, Alfred Frederick 1  
 Delionback, Leon Melvin 5 E  
 Dellenbarger, Lynn Edwin, Jr. 5  
 Dellinger, David C. 3 E  
 DeLong, David Deisher 1  
 DeMidowitz, William P. 1  
 Denny, George Richard 1  
 Denton, Robert Hurd, Jr. 3 E  
 DePalma, Felix 4  
 DePass, Skottowe W. 5  
 DeRogatis, Albert John 8  
 deShazo, Tom 7  
 Desrosiers, Norman A. 6  
 Detwiler, George D. 1  
 DeVore, Robert Newton 5  
 Deyton, Robert Guy, Jr. 3  
 Diamond, Gustave 3  
 Dickens, John Van, Jr. 5 E  
 Dickens, Wade Hampton, Jr. 3  
 Dickerson, Claud M. 5 E  
 Dickerson, John William 5  
 Watertown, Mass.  
 Fort Knox, Ky.  
 Ventnor City, N. J.  
 Philadelphia, Pa.  
 Gary, Ind.  
 Durham, N. C.  
 Parkton, N. C.  
 Warrenton, N. C.  
 Durham, N. C.  
 Cedarhurst, N. Y.  
 Siler City, N. C.  
 Trenton, Tenn.  
 Annapolis, Md.  
 Durham, N. C.  
 New Albany, Ind.  
 New York, N. Y.  
 Scranton, Pa.  
 Bloomfield Hills, Mich.  
 Matoaka, W. Va.  
 Durham, N. C.  
 Raleigh, N. C.  
 Newark, Del.  
 Candler, N. C.  
 Newark, Del.  
 Huntington, W. Va.  
 Schuylkill Haven, Pa.  
 Johnstown, Pa.  
 Durham, N. C.  
 Lawrenceville, N. J.  
 Plainfield, N. J.  
 Plandome, N. Y.  
 Charlotte, N. C.  
 Bartow, Fla.  
 Winter Park, Fla.  
 Mooresville, N. C.  
 Grosse Pointe, Mich.  
 New York, N. Y.  
 Hudson, N. Y.  
 Durham, N. C.  
 Mobile, Ala.  
 Durham, N. C.  
 Daytona Beach, Fla.  
 Cherryville, N. C.  
 Reading, Pa.  
 Neptune, N. J.  
 Richmond, Ind.  
 Washington, D. C.  
 Feeding Hills, Mass.  
 Camden, S. C.  
 Newark, N. J.  
 Ankara, Turkey  
 Creedmoor, N. C.  
 Collegeville, Pa.  
 Ninety-Six, S. C.  
 Raleigh, N. C.  
 Burgettstown, Pa.  
 Raleigh, N. C.  
 Scotland Neck, N. C.  
 Durham, N. C.  
 Danville, Va.

Dickson, Robert E. 1  
 Dickson, William Anthony 6  
 Dieffenbach, Otto Weaver, Jr. 1  
 Dillard, Lorenza J., Jr. 1  
 Dilts, Charles R. 1  
 DiMona, Anthony John 3  
 Dinkler, Leonard Ronald 6 E  
 Divine, Thomas McCallie, Jr. 1  
 Dixon, James L. 5  
 Doescher, Richard E. 5  
 Doggett, Lewis C. 8  
 Doherty, Andrew Joseph 5 E  
 Dohner, Donald Canfield 1  
 Domingos, William R. 7  
 Donoho, Glen B. 1  
 Donovan, James Joseph, Jr. 1  
 Donovan, John Smith 5  
 Dorman, Charles T. 3  
 Dorton, John Pete 5  
 Dotson, Claude J. 5  
 Douglas, William Forbes, Jr. 3  
 Douros, John D., Jr. 1  
 Downey, Thomas Dickson 1  
 Downing, William Thomas 1  
 Downs, Kenneth Ray 4  
 Doyle, Kenneth R. 1  
 Drakeford, William White 7  
 Draughon, Donald Ray 5  
 Drew, Mitchell N. 7  
 Driscoll, Richard H. 7  
 Driver, Tom 5  
 Drummond, Heyward L. 3  
 Dugan, Robert John 1  
 Dukes, Herbert Trice 1  
 Duncan, Guy Eugene 3  
 Duncan, John Julian 1  
 Duncan, Joseph Capers 7 E  
 Duncan, Joseph Meacham 7 E  
 Duncan, Lewis William 8  
 Duncan, Robert Anderson 5  
 Dunham, Donnell Paul 6  
 Dunn, Francis Borgia 3  
 Dunne, Walter Vincent 1  
 Dunphey, Everett Richard 3  
 Dunphy, James McG. Spec.  
 Dunson, John C. 1  
 Dunson, Sanford Allen 5  
 Durham Lee Ballinger 1  
 Duttweiler, Charles 3 E  
 Dwiggins, Gordon Leslie 5 E  
 Dye, Bobby Eugene 5  
 Earley, Charles M., Jr. 5  
 Early, Albert Terry Spec.  
 Earnest, Alfred Burks 8  
 Earon, Blaine Allen 1  
 Eason, Julian Kenneth 5  
 Eaton, H. Thomas 1  
 Eddowes, Edward Everett 3  
 Edens, John Clarence 5  
 Edgar, John Roland 7 E

Arlington, Va.  
 Nashville, Ga.  
 Ruxton, Md.  
 DeLand, Fla.  
 Durham, N. C.  
 Haddonfield, N. J.  
 Beckley, W. Va.  
 Kingsport, Tenn.  
 Kew Gardens, N. Y.  
 Attleboro, Mass.  
 Greenwood, S. C.  
 Lake Worth, Fla.  
 Havertown, Pa.  
 Macon, Ga.  
 Paducah, Ky.  
 Brighton, Mass.  
 Haddonfield, N. J.  
 Durham, N. C.  
 Durham, N. C.  
 N. Manchester, Ind.  
 New Orleans, La.  
 Clifton, N. J.  
 Haddonfield, N. J.  
 Decatur, Ill.  
 Pineville, N. C.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Quincy, Fla.  
 Charlotte, N. C.  
 Bristol, Tenn.  
 Norfolk, Va.  
 Flushing, N. Y.  
 Tampa, Fla.  
 Morganton, N. C.  
 New York, N. Y.  
 Asheville, N. C.  
 Asheville, N. C.  
 Durham, N. C.  
 Asheville, N. C.  
 Salisbury, N. C.  
 Brighton, Mass.  
 Garden City, N. Y.  
 Merchantville, N. J.  
 Lawrenceville, Ill.  
 LaGrange, Ga.  
 Summerville, Ga.  
 Birmingham, Mich.  
 Ridgewood, N. Y.  
 Durham, N. C.  
 Keystone, W. Va.  
 Norfolk, Va.  
 Welch, W. Va.  
 Bethesda, Md.  
 Altoona, Pa.  
 Durham, N. C.  
 Brockton, Mass.  
 Abington, Pa.  
 Rowland, N. C.  
 Coatesville, Pa.

- Edmonds, Eugene 7  
 Edwards, Charles Murphy 3  
 Edwards, Claude Everett, Jr. 1  
 Edwards, William B. 3  
 Edwards, William Harrison 7  
 Egan, James D. 6 E  
 Einbinder, Sidney 7  
 Eirich, Robert L. 7  
 Eisaman, Jack V. 3 E  
 Eisenberg, Lloyd 7  
 Eisenbrandt, Frederick H., Jr. 3 E  
 Elam, Clarence Rutledge 1  
 Elias, William Siler 5  
 Ellers, Norman L. 5  
 Ellington, William Thomas 1  
 Elliott, Floyd Avery 7  
 Elliott, Greer Woltz 5  
 Elliott, Henry Kerley 8 E  
 Elliott, Stuart Whitfield 5  
 Ellsworth, John C. 7  
 Elmore, E. P., Jr. 5 E  
 Elrod, William Alexander 5 E  
 Emes, Edward Louis, Jr. 3  
 Emge, Leonard E. 3  
 Emmons, Curtis Graham 7  
 Enander, John Ellis 3  
 Eng, George E. 3  
 Engberg, John Pierson 1  
 Eppley, Ernest D. 4  
 Epps, Charles Lee 1  
 Epps, Joe Schrum 1  
 Erickson, John Stuart 6  
 Erwin, Julian, Jr. 3  
 Eslick, Jack W. 5  
 Esposito, Robert Vincent 4  
 Eure, Thomas Duncan 1  
 Evans, David R., II 7  
 Evans, Merle De Vere, Jr. 1  
 Evans, Eugene Micheaux, Jr. 5  
 Evans, Gerald W. 7  
 Evans, Paul Franklin, Jr. 8  
 Evans, Thomas E. 5  
 Evans, Thomas Everett 3  
 Evans, William C. 5  
 Evenson, Jerome 7  
 Fahey, Francis Patrick 3  
 Faircloth, Bradley Edwin 1  
 Fairey, Robert Lewis 8  
 Fakkama, Robert E. 5  
 Faley, Richard William 2  
 Falwell, John James 4  
 Fanjoy, Weldon Sutherland 6  
 Farinella, Donald Anthony 3  
 Farley, Francis Claybourne 1  
 Farmer, John Lovelace, Jr. 1  
 Farno, Glenn Anderson 4  
 Farquhar, Clyde R. 3  
 Farquhar, Richard Lewis 1  
 Featherston, Alwyn Louis 7  
 Fekas, Paul William 4  
 Hampton, Va.  
 Weldon, N. C.  
 Pensacola, Fla.  
 Star, N. C.  
 Williamsport, Pa.  
 Durham, N. C.  
 W. Springfield, Mass.  
 Baltimore, Md.  
 Durham, N. C.  
 Philadelphia, Pa.  
 Baltimore, Md.  
 Whitehaven, Tenn.  
 Asheville, N. C.  
 Wilmington, N. C.  
 Warrenton, N. C.  
 Chester, S. C.  
 Durham, N. C.  
 Durham, N. C.  
 Charlotte, N. C.  
 New Orleans, La.  
 Rocky Mount, N. C.  
 Chadbourn, N. C.  
 Mt. Vernon, N. Y.  
 San Antonio, Texas  
 Asbury Park, N. J.  
 Plainfield, N. J.  
 Englewood, N. J.  
 Bradenton, Fla.  
 Cramerton, N. C.  
 Newton, N. C.  
 Newton, N. C.  
 Bay Shore, N. Y.  
 Harlan, Ky.  
 Fayetteville, Tenn.  
 East Orange, N. J.  
 Beaufort, N. C.  
 S. Charleston, W. Va.  
 Massillon, Ohio  
 Durham, N. C.  
 Connellsville, Pa.  
 Lexington, N. C.  
 Norfolk, Va.  
 Scranton, Pa.  
 Gainesville, Fla.  
 Wilmington, N. C.  
 Worcester, Mass.  
 Greensboro, N. C.  
 Durham, N. C.  
 Lomita Park, Calif.  
 W. Hartford, Conn.  
 Roxbury, Mass.  
 Statesville, N. C.  
 Passaic, N. J.  
 Charleston, W. Va.  
 Wilson, N. C.  
 Akron, Ohio  
 Evansville, Ind.  
 Monessen, Pa.  
 Durham, N. C.  
 Hampton, Va.



Fels, Fred Edward 9  
 Felt, Jeremy P. 2  
 Felts, Robert Lee 2  
 Fenner, William Eaton 3 E  
 Ferguson, Cortez W., Jr. 4  
 Ferrell, Marshall Carr, Jr. 5  
 Ferres, Walter Dean 4  
 Ferris, A. Edward 5  
 Fetner, Donald Hughey 5  
 Few, John Francis 3  
 Fick, William G., Jr. 3  
 Fiegel, Harvey E. 3 E  
 Fields, Joseph B. 1  
 Finberg, Robert Louis 1  
 Finch, James Eugene 3 E  
 Fink, Don Roger 1  
 Finn, Raymond Eugene 2  
 Fischell, Robert E. 3 E  
 Fish, Donald George 3  
 Fishe, Gerald R. A. 7 E  
 Fisher, Albert F. 3  
 Fisher, James Edwin 3  
 Fisher, Robert Joseph 7  
 Fisher, Robert Lee 4  
 Fisher, William David 3  
 Fisher, William Prescott 1  
 Fleetwood, Edgar Allen 5  
 Fitch, James B., Jr. 5 E  
 Fleming, Robert Edward 3  
 Fleming, William B. 7  
 Fleming, William McCurdy 1  
 Flint, Thomas Levings 1  
 Floyd, Daniel J. 7  
 Floyd, William Stewart 8 E  
 Foard, Milton C. 5  
 Fogle, Richard D. 5  
 Fogleman, Lindsay L. 7 E  
 Fogleman, Ross Lee, Jr. 8  
 Folckemer, Clarence Edward 6  
 Folger, Fred, Jr. 7  
 Folk, Chris Evans 1  
 Forbes, Daniel S. 7  
 Forbes, Donald B. Spec.  
 Forbes, Gordon M. 1  
 Ford, Harold E. 5  
 Ford, John Byron 1  
 Foremon, Edwin E. 6  
 Foreman, James Graham 6  
 Foreman, James M., Jr. 5 E  
 Foreman, Thomas Lee 1  
 Fornes, Guy Leo 1  
 Forrest, Otto Norman, Jr. 7  
 Foster, Kenneth Earl 1  
 Foster, Zaro Elton 3  
 Fowler, Newton Oliver, Jr. 1  
 Fox, Edgar Charles, Jr. 3 E  
 Fox, John Howard 1  
 Frady, Andrew Hampton 4  
 Frame, Norman R., Jr. 3 E  
 Frank, William Elmore 3 E

Durham, N. C.  
 Putnam Valley, N. Y.  
 Raleigh, N. C.  
 Rocky Mount, N. C.  
 Greensboro, N. C.  
 Petersburg, Va.  
 Ridgewood, N. J.  
 New York, N. Y.  
 Durham, N. C.  
 Greensboro, N. C.  
 Passaic, N. J.  
 Durham, N. C.  
 Durham, N. C.  
 Englewood, N. J.  
 Louisburg, N. C.  
 Reading, Pa.  
 Baltimore, Md.  
 New York, N. Y.  
 Penns Grove, N. J.  
 London, England  
 Fairmont, N. C.  
 Durham, N. C.  
 Athens, Tenn.  
 Grosse Pointe, Mich.  
 Roxboro, N. C.  
 Grosse Pointe, Mich.  
 Stratford, Conn.  
 Weston, W. Va.  
 Henderson, N. C.  
 Ravenswood, W. Va.  
 Philadelphia, Pa.  
 Joilet, Ill.  
 Fairmont, N. C.  
 Durham, N. C.  
 Marion, S. C.  
 Durham, N. C.  
 Durham, N. C.  
 Greensboro, N. C.  
 York, Pa.  
 Mt. Airy, N. C.  
 Charlotte, N. C.  
 Hendersonville, N. C.  
 Parkersburg, W. Va.  
 Patchogue, N. Y.  
 Richmond, Ind.  
 Alexander City, Ala.  
 Durham, N. C.  
 Elizabeth City, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Bethesda, Md.  
 Winston-Salem, N. C.  
 Harmony, N. C.  
 Mt. Airy, N. C.  
 Lynbrook, N. Y.  
 Hollis, N. Y.  
 Wilmington, N. C.  
 Spuyten Duyvil, N. Y.  
 New York, N. Y.

- Franklin, Andrew J. 1  
 Franks, Stephen Field 1  
 Freeland, James J. 5  
 Freeman, James Thomas 5  
 Freeman, William Townsend 5  
 Freeze, Jack E. 7 E  
 French, Robert, Jr. 7  
 Frenzel, Charles H. Spec.  
 Frey, Frank T. 3 E  
 Friedlund, John E. 3  
 Friedman, Burnam Ivan 3 E  
 Friedman, Fred J. 5  
 Frierson, Wallace Brown 3  
 Frischmann, Charles Peter 4  
 Fritz, Edmund William 3 E  
 Fry, John Sedgwick 3  
 Fry, Ray M. 5  
 Frye, Jerry L. 7  
 Frye, Robert Dan 8  
 Fuchs, Joseph Paul Spec.  
 Fuller, Melville Weston, Jr. 5  
 Fullerton, John Carr, Jr. 5 E  
 Fulmer, Elroy 1  
 Fulp, Kenneth E. 6  
 Fulweiler, Robert Edward 3  
 Furber, Edward S. 5  
 Futrell, James Louis 3  
 Gale, Glen Roy 5  
 Galifianakis, Nick 3  
 Gallagher, Jerold Gray 3  
 Gallant, William E., Jr. 7  
 Galyon, James Douglas 1  
 Game, Paul, Jr. 1  
 Garber, Mark Edward 5  
 Garceau, Arthur Joseph 5  
 Gardiner, Theodore David 3  
 Gardinier, Richard John 6  
 Gardner, Samuel Watson, Jr. 5  
 Garlington, James Conway 1  
 Garlington, Larenus Nelson 5  
 Garriss, Marcus A. 7  
 Garvine, Richard Earle 3  
 Gaskins, Robert James 4  
 Gaston, Harley Black, Jr. 1  
 Gatling, James Edward 8  
 Gatling, Wilfred C., Jr.  
 Gaul, Gerald Edward 1  
 Gausman, William Henry, Jr. 1  
 Gaylord, Jackson Eldridge 5  
 Genberg, David Edwin 1  
 Genette, Sidney Wilson, Jr. 1  
 George, Harris James 3  
 Gerstein, Joe W. 7  
 Gessner, Lawrence K. 5  
 Gibbs, C. Leon 7 E  
 Gibbs, Raeford Frank 3  
 Gibbs, Robert Colman 1  
 Gibbs, William Bryan 3 E  
 Gibson, Harold Eugene, Jr. 1  
 Gibson, James Edward, Jr. 5  
 Washington, N. C.  
 Hendersonville, N. C.  
 Miami Beach, Fla.  
 Durham, N. C.  
 Great Falls, S. C.  
 Charlotte, N. C.  
 Durham, N. C.  
 Hillsboro, N. C.  
 St. Albans, N. Y.  
 Chicago, Ill.  
 Baltimore, Md.  
 Durham, N. C.  
 Mt. Pleasant, Tenn.  
 Forest Hills, N. Y.  
 Arlington, Va.  
 Philadelphia, Pa.  
 Rabun Gap, Ga.  
 Durham, N. C.  
 Gastonia, N. C.  
 Clearwater, Fla.  
 Madison, Va.  
 Orange, Va.  
 Honolulu, T. H.  
 Charleston, S. C.  
 Columbia, Pa.  
 St. Petersburg, Fla.  
 Greenville, N. C.  
 Mount Croghan, S. C.  
 Durham, N. C.  
 Hampton Roads, Va.  
 Anderson, S. C.  
 Greensboro, N. C.  
 Tampa, Fla.  
 Carlisle, Pa.  
 Pembroke, Mass.  
 Alfred, N. Y.  
 Miami, Fla.  
 Charlotte, N. C.  
 Birmingham, Ala.  
 Birmingham, Ala.  
 Wadesboro, N. C.  
 Wilmington, Del.  
 New Bern, N. C.  
 Belmont, N. C.  
 Norfolk, Va.  
 Suffolk, Va.  
 Detroit, Mich.  
 South Orange, N. J.  
 Belhaven, N. C.  
 Englewood, N. J.  
 Memphis, Tenn.  
 Towson, Md.  
 Covington, Ga.  
 Plainfield, N. J.  
 Reidsville, N. C.  
 Asheville, N. C.  
 Bath, N. C.  
 Reidsville, N. C.  
 Kenton, Ohio  
 Winston-Salem, N. C.

Gibson, James Franklin 1  
 Gibson, John D. S. 3  
 Gibson, Robert Bruce 5  
 Gibson, Robert Stansill 7  
 Giese, Richard W. 8  
 Gifford, Neil Allen 7  
 Gilbertson, John R. 6  
 Gilhllan, Charles McGrew 3 E  
 Gill, Francis Kilpatrick 7  
 Gill, Harold Eugene 3  
 Gilliam, John R. 2  
 Gililand, John H. 8  
 Gilmer, William Dryden 5  
 Gilpatrick, Elmer Ellsworth 1  
 Gimler, John Robert 6  
 Gitlin, Leon S. 4  
 Glaze, John William 5  
 Glaze, Richard 1  
 Glazier, Leland Cole 3  
 Gleason, William Lounsbury 5  
 Glenn, Earl Hollis 1  
 Glenn, Irwin P. 3  
 Glenn, Marvin T. 5  
 Glenn, Samuel Bailey, Jr. 5  
 Glennie, John Raymond 1  
 Glover, Edward J., Jr. 6  
 Glover, Joseph A. 5  
 Glover, Robert Keith 3  
 Gobbel, Luther Russell 1  
 Gochnauer, Richard B. Spec.  
 Goebert, Herbert William, Jr. 1  
 Goeke, William Henry 7  
 Goettel, Gerard Louis 5  
 Goettsch, LaVerne Stanley 1  
 Goldman, Jay 5 E  
 Goldstein, Garry Arnold 0  
 Goldwasser, Maxwell Robert 1  
 Gonzalez, Robert Eugene 3 E  
 Goodman, Arthur 5  
 Goodman, Fred W. 7 E  
 Goodman, Howard 7 E  
 Goodwill, William F. 7  
 Goodwin, Donald C. 4  
 Gordon, Norman H. 1  
 Gordon, Richard W. 7  
 Gordon, Sam 3  
 Gore, Tom W. 5  
 Gorham, Alden Burr, Jr. 1  
 Gorrell, Joseph Palmer 7  
 Gosnell, Clarence William, Jr. 2  
 Gossett, Charles Robert 3  
 Goswick, Claude Benjamin 3  
 Gould, Kenneth George, Jr. 5  
 Govan, Colin M. 3 E  
 Grabowski, Edwin Theo 1  
 Grace, John Vincent 3  
 Graham, Franklin C. 3  
 Graham, Fredrick William, Jr. 6  
 Graham, Joseph Lawrence 1  
 Graham, Otho Leslie, Jr. 1

Wilmington, N. C.  
 Chevy Chase, Md.  
 Winston-Salem, N. C.  
 Rockingham, N. C.  
 South Kent, Conn.  
 Estill, S. C.  
 West Medford, Mass.  
 Trenton, N. J.  
 Raleigh, N. C.  
 Jacksonville, Fla.  
 Pine Beach, N. J.  
 Utica, Pa.  
 Kingsport, Tenn.  
 Bangor, Maine  
 Far Hills, N. J.  
 Chicago, Ill.  
 Durham, N. C.  
 Orlando, Fla.  
 Petersburg, Va.  
 Daytona Beach, Fla.  
 Durham, N. C.  
 Burlington, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Kennebunk Port, Maine  
 Lumberton, N. C.  
 Wilmington, N. C.  
 Bailey, N. C.  
 Guilford College, N. C.  
 Baltimore, Md.  
 Coatesville, Pa.  
 Detroit, Mich.  
 New Rochelle, N. Y.  
 Winterset, Iowa  
 Durham, N. C.  
 Norfolk, Va.  
 New York, N. Y.  
 Tampa, Fla.  
 Charlotte, N. C.  
 Kannapolis, N. C.  
 New York, N. Y.  
 Miami, Fla.  
 Durham, N. C.  
 Pinnacle, N. C.  
 Jacksonville, Fla.  
 Asheville, N. C.  
 Jackson, Miss.  
 Englewood, N. J.  
 Greensboro, N. C.  
 Washington, D. C.  
 Whitehaven, Tenn.  
 Durham, N. C.  
 Tampa, Fla.  
 Collingdale, Pa.  
 Seymour, Conn.  
 St. Albans, N. Y.  
 Oaklyn, N. J.  
 Charleston, W. Va.  
 Durham, N. C.  
 Bartow, Fla.

- Grahl, Bobby Howard 1  
 Gray, Gene Woodrow 0  
 Gray, Harris D. 3  
 Gray, William James 5  
 Greb, Don Holmes 3  
 Greco, John 5  
 Greenberg, Milton 3  
 Greenberger, Stephen A. 3  
 Greene, Albert James 3  
 Greene, Fred M., Jr. 3  
 Greenebaum, Howard M. 1  
 Greenleaf, Thomas Raymond 6  
 Griffin, Charles Wesley 3  
 Griffith, William J. 5  
 Grigg, Marvin Atkin, Jr. 3  
 Grigg, Womble Quay, Jr. 7  
 Grimes, James F., Jr. 5  
 Grisso, John Kennedy 3  
 Groat, Richard Morrow 1  
 Grose, George B. 7  
 Groshens, David E., Jr. 7  
 Grossnickle, William Foster 3  
 Grove, Charles David 3 E  
 Grover, Carl Atwood 7  
 Grune, George Vincent 1  
 Gubbins, Clarence Paul, Jr. 5  
 Gude, Robert L. 1  
 Guest, Floyd Emory, Jr. 1  
 Guinee, William Fenton, Jr. 7  
 Gullett, George Harris, Jr. 5  
 Gulum, Fahir 5 E  
 Gumkowski, Thaddeus R. 5  
 Gup, Mark Kramer 1  
 Gwyn, Julius J. 5  
 Haas, William Howard 5  
 Hackett, William Edward 7  
 Hackney, Ben Hall 3  
 Hackney, Edwin A. 3  
 Haft, Richard Jay 1  
 Hager, Dudley Pierce 1  
 Hahn, Raymon Jenkin 1  
 Hail, Joe James, Jr. 1  
 Haim, Liam 3  
 Haines, Robert Earl 7 E  
 Haines, William E. Spec.  
 Hakan, M. Joseph 7 E  
 Hale, Joseph Mack 2  
 Hall, Frederick Lewis 5 E  
 Hall, Jim Thomas 7  
 Hall, John Woosley 1  
 Hall, Kenneth Daland 7  
 Hall, Leslie Marshall 3  
 Hail, Robert Peola 7 E  
 Hall, Wayne T. 5 E  
 Hamilton, James L., Jr. 5 E  
 Hamilton, Wilson L. 9  
 Hamm, Kyle E. 3  
 Hammer, William Harris 5  
 Hammond, David P. 8  
 Hampton, William Robert 5  
 Asheville, N. C.  
 Jasper, Ala.  
 Paris, Mo.  
 Mt. Hope, W. Va.  
 Lake Worth, Fla.  
 Hewlett, N. Y.  
 Danville, Va.  
 Morris Plains, N. J.  
 Forest Hills, N. Y.  
 Philadelphia, Pa.  
 Baltimore, Md.  
 Dowingtown, Pa.  
 Greensboro, N. C.  
 Fort Thomas, Ky.  
 Lawndale, N. C.  
 Sylva, N. C.  
 Rocky Mount, N. C.  
 Alexandria, Va.  
 Pittsburgh, Pa.  
 St. Paul, Minn.  
 Glenside, Pa.  
 Nutley, N. J.  
 Alliance, Ohio  
 Altoona, Pa.  
 White Plains, N. Y.  
 Elgin, Ill.  
 Englewood, N. C.  
 Starr, S. C.  
 New Orleans, La.  
 Fayette, Ala.  
 Istanbul, Turkey  
 Branford, Conn.  
 Pensacola, Fla.  
 Reidsville, N. C.  
 Norwalk, Conn.  
 Philadelphia, Pa.  
 Lucama, N. C.  
 Charlotte, N. C.  
 New York, N. Y.  
 Louisville, Ky.  
 Scarsdale, N. Y.  
 Jacksonville, Fla.  
 Yonkers, N. Y.  
 Catskill, N. Y.  
 Durham, N. C.  
 Joplin, Mo.  
 Windsor, N. C.  
 Durham, N. C.  
 High Point, N. C.  
 High Point, N. C.  
 Durham, N. C.  
 Cradock, Va.  
 Rocky Mount, N. C.  
 Charlotte, N. C.  
 Uniontown, Pa.  
 Highland Park, Ill.  
 W. Palm Beach, Fla.  
 Buchanan, Va.  
 Cerro Gordo, N. C.  
 Winston-Salem, N. C.



Hancock, Jonathan Howard	5	Sebring, Fla.
Hanes, Phillip Frank, Jr.		Walkertown, N. C.
Hankins, William Edward, Jr.	3 E	Christiansburg, Va.
Hann, William G.	7 E	Brownsville, Pa.
Hannin, George Alphonse, III	1	Paducah, Ky.
Hannon, Fred L.	5 E	Charleston, W. Va.
Hanson, Elmer David	3	Massillon, Ohio
Hanson, William Robert	1	Towson, Md.
Hardee, Walter Person, Jr.	7 E	Durham, N. C.
Hardin, Paul	1	High Point, N. C.
Hardison, Frederick Leon	9 E	Williamston, N. C.
Hardison, James Arthur, Jr.	1	High Point, N. C.
Harman, Alonzo Lincoln	4	Bluefield, W. Va.
Harper, Clyde Wallace	5	Greer, S. C.
Harper, Jack Bourque	7 E	Durham, N. C.
Harrell, W. Dwight	Spec.	Durham, N. C.
Harrill, James Clinton	8	Gaffney, S. C.
Harrington, Alfred Merle	1	Henderson, N. C.
Harris, Allan R.	7	Milton, Mass.
Harris, Charles Anthony	0	York, S. C.
Harris, Clinton Ross	4	Durham, N. C.
Harris, Elisha Carter	3	Durham, N. C.
Harris, Henry Sear	8	Norfolk, Va.
Harris, Jack Buren	5 E	Greensboro, N. C.
Harris, Jackson Greene, Jr.	Spec.	Stovall, N. C.
Harris, James Amos	1	Scotland Neck, N. C.
Harris, John B.	3	Albemarle, N. C.
Harris, Paul Black	Spec.	Harrisburg, Pa.
Harris, Thomas Burrell	4	Charlotte, N. C.
Harris, Thomas C.	7 E	Durham, N. C.
Harris, William Daniel	3	Charlotte, N. C.
Harris, William Randall	1	Asheville, N. C.
Harrison, Nathaniel Mason, Jr.	6	High Point, N. C.
Harrison, Richard Paige	3	Norfolk, Va.
Hart, Wilmer Donald, Jr.	1	Lisbon, Ohio
Hartzell, Arthur R., Jr.	7	Trenton, N. J.
Harvey, Sam L.	3	Jacksonville, Fla.
Harvin, James S.	5	Manning, S. C.
Harward, Ernest David	4 E	Carbondale, Ill.
Hatley, Jimmy W.	2	Albemarle, N. C.
Haughton, William G.	7	Kingstree, S. C.
Hauser, Robert E.	5	High Point, N. C.
Hautamaki, Edward W.	5	Mass, Mich.
Hawes, Raymond Burke	5	Northport, N. Y.
Hawkins, James Wendell	5	Nashville, Tenn.
Hawkins, Raymond Landis	1	Clarksburg, W. Va.
Hayes, Carlyle Bernard	5	Winston-Salem, N. C.
Hayes, Kendall Preston	3	Park Ridge, Ill.
Hayward, Walter Wallace	5 E	Weldona, Colo.
Hazel, Robert L.	5 E	Durham, N. C.
Heiss, Howard	5	Baltimore, Md.
Heller, John H.	5	Pikesville, Md.
Heller, Paul Edward	2	Huntington, W. Va.
Heller, William Samuel	1	Pikesville, Md.
Helm, Carl E.	7	Shelton, Conn.
Henderson, Thomas Briggs	1	Charlotte, N. C.
Hendrix, Thomas L.	5	Charlotte, N. C.
Henkel, Lee Hampton, Jr.	6	Charleston, W. Va.
Hennesse, Manassa Nixon, III	1	Concord, N. C.
Henry, John F.	5	Morrisville, N. Y.

- Hensel, Richard H. S. 3  
 Herbin, Leonidas, Jr. 5  
 Herlong, Bettis Grigsby 7  
 Hermance, Donald Lewis 3  
 Hermann, Ernest C. 7  
 Hernandez, Harley Holt 7  
 Herrmann, Melvin R. 7 E  
 Herron, John 3  
 Heslin, John Thomas 1  
 Hess, Donald Gilbert 7  
 Hester, Bernard C. 6  
 Hibbits, Harold Burns 5  
 Hibbitts, Josiah B. 3  
 Hicks, Julius Norton 7  
 Higginbotham, Allen B. 3 E  
 Higgins, Louis 1  
 Higgins, William Arthur 3  
 Highsmith, Albert W. 5  
 Hilker, John Hamilton 1  
 Hill, David William 3 E  
 Hill, Hoyt Gray 3  
 Hill, James R. 3  
 Hill, Richard J. 1  
 Hiller, Karl Heinz 4  
 Hilton, James Lee 1  
 Hinson, Garland Theodore 7  
 Hipps, Herbert Greene 7  
 Hirata, Arthur A. 7  
 Hobson, George 2  
 Hodges, William Starnes 5  
 Hodgkins, George Clinton 1  
 Hodgkins, Lewis 8  
 Hodgson, Thomas Salkald 3  
 Hoellen, Earl Edwin 5 E  
 Hoey, Franklin James 3  
 Hoffman, George Pearson 0  
 Hofsommer, Armin Conrad 5  
 Hogan, John Thomas 7  
 Hogan, Joseph H. 6  
 Hogg, William James 3  
 Hoke, Kenneth Brown 7 E  
 Holbrook, Harold Douglas 7 E  
 Holcroft, Charles T., Jr. 7  
 Holden, Benjamin T. 8  
 Holland, Claude Douglas 5  
 Holland, Darrell Massey 3  
 Holland, Robert L. 7 E  
 Hollandsworth, Roy Melvin 1  
 Hollar, Homer Cleveland 4  
 Hollenbeck, William C. 1  
 Holloman, Milton Carden 7  
 Holloway, Benjamin D. 5  
 Holton, Holland Young Spec.  
 Holyfield, William G., Jr. 3  
 Holzinger, George C. 6  
 Homan, Henry H. 7  
 Honeycutt, Lex Edward 6 E  
 Honeycutt, Robert L., Jr. 7  
 Hood, Howard James 7  
 Hooker, Alfred Frank, Jr. 1  
 Jersey City, N. J.  
 Greensboro, N. C.  
 Saluda, S. C.  
 Nashua, N. H.  
 Richmond, Va.  
 Loris, S. C.  
 Arlington, Va.  
 St. Petersburg, Fla.  
 Brooklyn, N. Y.  
 Farmington, Utah  
 Bladenboro, N. C.  
 Pikeville, Ky.  
 Nashville, Tenn.  
 Enterprise, Ala.  
 Jaeger, W. Va.  
 Nesquehoning, Pa.  
 Farrell, Pa.  
 Durham, N. C.  
 Asheboro, N. C.  
 Poland, Ohio  
 Bowling Green, Ky.  
 Wheeling, W. Va.  
 Poland, Ohio  
 Berlin, Germany  
 Texarkana, Ark.  
 Whiteville, N. C.  
 Greensboro, N. C.  
 Norfolk, Va.  
 Philadelphia, Pa.  
 Dresden, Tenn.  
 Southern Pines, N. C.  
 Southern Pines, N. C.  
 Bronxville, N. Y.  
 Chicago, Ill.  
 Wilmington, Del.  
 Troy, N. C.  
 Webster Groves, Mo.  
 Durham, N. C.  
 Durham, N. C.  
 Rutherford, N. J.  
 Granite Quarry, N. C.  
 Kannapolis, N. C.  
 Detroit, Mich.  
 Macon, N. C.  
 Raleigh, N. C.  
 Raleigh, N. C.  
 Williamsport, Pa.  
 Salem, Va.  
 Yadkinville, N. C.  
 Palm Beach, Fla.  
 Durham, N. C.  
 Washington, D. C.  
 Durham, N. C.  
 Roanoke, Va.  
 Riverside, R. I.  
 Lebanon, Pa.  
 Durham, N. C.  
 Charlotte, N. C.  
 Baltimore, Md.  
 Martinsville, Va.

Hooker, Raymond Bright, Jr. 1  
 Hooper, Glenn L. 5  
 Hooper, Ralph Leroy 5 E  
 Hoooven, Wilbur Thomas, III 5 E  
 Hoover, George B. 1  
 Hopkins, James I. 8  
 Hopper, Richard Francis 1  
 Hoppin, Stuart Bliss, Jr. 7  
 Horn, Robert Campbell 7  
 Horton, Bryan Thomas 3  
 Horton, Kenneth Irvin 1  
 Hoshall, Lee D. 4  
 Hotenstine, Richard D. 5 E  
 Houck, Frederic Ronald 1  
 Houck, William Bryan 7  
 House, James Stowe 3  
 House, Winfred Jackson 5  
 Houser, James L. 1  
 Howard, Woodford, Jr. 1  
 Howard, Michael Ross 1  
 Howard, Richard Veloice 3  
 Howell, Clewell, Jr. 1  
 Howell, David Gist, Jr. 5  
 Howell, Thomas Milton 3  
 Howie, John Harvey, Jr. 1  
 Howse, Ralph Melvin 1  
 Hubbard, Edward Earl 4  
 Hubbard, Robert Carl 5  
 Huber, Donald Simon 3  
 Huckabee, Robert C. 6  
 Huggins, Walter Edward 3  
 Hudmon, Isham S., Jr. 3  
 Hudson, Isham Barney 3  
 Hudson, John Grier 5  
 Hudson, Richard Page 1  
 Hudson, Robert Clarence 1  
 Huffer, Nicholas Robinson 1  
 Hufines, Dewey Hobson 5  
 Huffman, William Howard 5 E  
 Huggins, Theodore P. 3  
 Hughes, Thomas P. 5  
 Hugus, Wright, Jr. 1  
 Hull, J. Frank 5  
 Hulse, James E. 1  
 Humphrey, Earl L. 5  
 Hunnicutt, Thomas C., Jr. 0  
 Hunt, Charles Jackson, Jr. 2  
 Hunt, Lawrence E. 4  
 Hunt, William Bryce Spec.  
 Hunter, Eugene G., Jr. 3  
 Hunter, Jack W. 7 E  
 Hunttoon, Murray L. 7 E  
 Hunterberry, Charles Robert 3  
 Hurn, Baxter C. Spec.  
 Hurst, David Eugene 0  
 Hurst, Robert Grant 1  
 Hussey, William Howland 6  
 Hutson, Edward Douglas 4  
 Hyatt, Edward 6  
 Ingber, Lawrence J. 6

Kinston, N. C.  
 Dunn, N. C.  
 Asheville, N. C.  
 Bryn Mawr, Pa.  
 Williamsport, Pa.  
 Baltimore, Md.  
 Cherry Point, N. C.  
 Framingham, Mass.  
 Manhasset, N. Y.  
 Belmont, N. C.  
 Bellevue, Ohio  
 Baltimore, Md.  
 Leesport, Pa.  
 Carlisle, Pa.  
 Roanoke, Va.  
 Birmingham, Mich.  
 Durham, N. C.  
 Washington, D. C.  
 Prestonsburg, Ky.  
 Concord, N. C.  
 Grand Rapids, Mich.  
 Towson, Md.  
 Mt. Sterling, Ky.  
 Rock Hill, S. C.  
 Charlotte, N. C.  
 Fairfield, Ala.  
 Stedman, N. C.  
 Lancaster, S. C.  
 High Point, N. C.  
 Durham, N. C.  
 Danville, Va.  
 Jacksonville, Fla.  
 Andrews, N. C.  
 Spartanburg, S. C.  
 Richmond, Va.  
 Winston-Salem, N. C.  
 Toledo, Ohio  
 Reidsville, N. C.  
 Charlotte, N. C.  
 Danville, Va.  
 Sumter, S. C.  
 Wheeling, W. Va.  
 Charlotte, N. C.  
 Durham, N. C.  
 Sangerville, Me.  
 Swainsboro, Ga.  
 Pleasant Garden, N. C.  
 Pleasant Garden, N. C.  
 Lexington, N. C.  
 Kingsport, Tenn.  
 Durham, N. C.  
 Durham, N. C.  
 Winchester, Va.  
 Durham, N. C.  
 Middlesboro, Ky.  
 Durham, N. C.  
 Weaverville, N. C.  
 Miami, Fla.  
 Asheville, N. C.  
 Wynnnewood, Pa.

- Ingham, Olin H. 2  
 Ingram, George Stephen 3  
 Ingwersen, Robert Starr 1  
 Insch, Paul H. 7  
 Ira, Gordon H. 3  
 Irlbacher, John M. 7  
 Irvine, Bruce D. 3 E  
 Irwin, Dwight M. 4  
 Irwin, William Paul 3  
 Isenhour, Dwight Lyman 6  
 Isley, Hugh Galloway 3  
 Ivey, David Middleton 1  
 Jackson, Benjamin T. 3  
 Jackson, Ervin, Jr. 6  
 Jackson, Harold Mackenzie, II 7 E  
 Jackson, John J. 8  
 Jackson, Philip Wilford 7 E  
 Jackson, William H. 7  
 Jacobsen, M. Andre, Jr. 3  
 Jacokes, Paul W. 6  
 Jakob, Walter Karl 3 E  
 James, Carl Clifton 4  
 James, Kenneth Clayton 7  
 James, William Edward 3 E  
 Janatka, Joseph 7 E  
 Jarvis, Hallett Ward 11  
 Jeffers, Robert Seeger 1  
 Jefferson, Arthur S. 3  
 Jenkins, John L., Jr. 5 E  
 Jenkins, Martin Edward 8  
 Jennings, Bruce Daniel 0  
 Jennings, Bruce Temple 1  
 Jennings, Clark William 5  
 Jennings, William Beatty, Jr. 8  
 Jeske, John William, Jr. 5  
 Johnson, Alfred Fletcher 1  
 Johnson, Bobby Lee 1  
 Johnson, Charles Buchanan 5  
 Johnson, Clarence A., Jr. 3 E  
 Johnson, David Dowdell 1  
 Johnson, Edwin G. 6  
 Johnson, Guy M., Jr. 7  
 Johnson, Harry Wallace, Jr. 3  
 Johnson, James 0  
 Johnson, Kenneth Raymond 1  
 Johnson, Lee 3  
 Johnson, Peter Grayson 1  
 Johnson, Peter Paul 3  
 Johnson, Ragnar Edwin 5  
 Johnson, Richard S. 1  
 Johnston, Cyrus Conrad 3  
 Johnston, William David 1  
 Jones, Carl Lester 7  
 Jones, Charles Albert 3  
 Jones, Charles David 5  
 Jones, Charles Ray 5  
 Jones, Darrell Shaw, Jr. 5  
 Jones, Douglas J. 3  
 Jones, Edward Earl 7  
 Jones, Grover Stephen 0  
 Concord, N. H.  
 Jacksonville, Fla.  
 Miami, Fla.  
 Durham, N. C.  
 Jacksonville, Fla.  
 Mamaroneck, N. Y.  
 Frankfort, Ky.  
 Charlotte, N. C.  
 Pittsburgh, Pa.  
 Taylorsville, N. C.  
 Raleigh, N. C.  
 Charlotte, N. C.  
 Jacksonville, Fla.  
 Birmingham, Ala.  
 Charlotte, N. C.  
 Larchmont, N. Y.  
 Johnson City, N. Y.  
 Shreveport, La.  
 Plainfield, N. J.  
 Durham, N. C.  
 Roselle, N. J.  
 Raleigh, N. C.  
 Winterville, N. C.  
 Charleston, W. Va.  
 Berwyn, Ill.  
 Charleston, S. C.  
 Forest Hills, N. Y.  
 Rye, N. Y.  
 Charlotte, N. C.  
 Durham, N. C.  
 Laurens, S. C.  
 Orlando, Fla.  
 Orlando, Fla.  
 Fayetteville, N. C.  
 Westfield, N. J.  
 Warrenton, Va.  
 Mayodan, N. C.  
 Portsmouth, Va.  
 Durham, N. C.  
 Baton Rouge, La.  
 Cedar Grove, N. J.  
 Asheville, N. C.  
 Weldon, N. C.  
 Fairmont, N. C.  
 Penascola, Fla.  
 Weldon, N. C.  
 Baldwin, N. Y.  
 West Cranford, N. J.  
 Charleston, S. C.  
 Pahokee, Fla.  
 Mooresville, N. C.  
 Sackets Harbor, N. Y.  
 Laurinburg, N. C.  
 Charlotte, N. C.  
 Middletown, Ohio  
 Greenwood, S. C.  
 Newark, Ohio  
 Southport, N. C.  
 Durham, N. C.  
 Hartsville, S. C.



- Jones, Harvey Chester 4  
 Jones, Howard B. 5  
 Jones, John Oscar 4  
 Jones, Leonidas Merritt, Jr. 1  
 Jones, Loring S., Jr. 4  
 Jones, Robert Q. 3  
 Jones, Simeon Broadus, Jr. 1  
 Jordan, Benjamin E., Jr. 5  
 Jordan, Ernest M., Jr. 5 E  
 Jordan, Samuel Kelly 8  
 Jordan, Verner Calvin 1  
 Jouannet, Francis L., Jr. 6  
 Joyce, William Ogden 1  
 Joyner, Edward Madison 1  
 Jurew, John C., Jr. 3  
 Kaelin, William George 2  
 Kalevas, Bill Arestedes 1  
 Kanipe, James F. 5 E  
 Kanoy, Robert C. 7  
 Karl, Lawrence O. 7  
 Karmatz, Franklin Neil 8  
 Karmazin, John 7  
 Karukstis, Paul 9  
 Kastrinelis, Peter L. 3 E  
 Katzenmeyer, William G. 3  
 Kaus, Tyler Garretson 7  
 Kearns, Tom Johnston, Jr. 7  
 Keck, Charles, Jr. 9  
 Keebler, Ben Jennings 1  
 Keevan, Thomas John 9  
 Keffer, Charlie 2 E  
 Keith, Hudie C., Jr. 7 E  
 Kellam, Floyd E. 5  
 Kellam, Frank W. 5  
 Keller, Harry L. 7  
 Kelly, Walter Richard, Jr. 3  
 Kenaston, Robert Allen 3 E  
 Kenaston, Thomas C., Jr. 5  
 Kenefick, John M. 7 E  
 Kenion, Eugene Grant 3  
 Kennard, Francis M., Jr. 3  
 Kennedy, Horton P., Jr. 1  
 Kennedy, James Arthur 3  
 Kennedy, Joseph E., Jr. 1  
 Kennedy, Theodore Clifford 1  
 Kennerly, Clarence M. 5 E  
 Kent, Alfred H. 5  
 Kent, Horace Smith 1  
 Kersey, James Stuart 3  
 Key, Paul F. 5  
 Keyes, Robert Spencer 3  
 Keziah, Sanford Perry 1  
 Kiely, Thomas Michael 7  
 Kiger, Willie Maxwell 1  
 Kilcher, James C. 3  
 Kime, Richard Charles 1  
 King, Arthur Bruce 1  
 King, Robert David 3  
 King, William Payne 3  
 Kingery, Robert E. 5  
 Baltimore, Md.  
 Clearwater, Fla.  
 Saluda, S. C.  
 Raleigh, N. C.  
 Pittsburgh, Pa.  
 Charleston, W. Va.  
 Hope Mills, N. C.  
 Saxapahaw, N. C.  
 Raleigh, N. C.  
 Lynchburg, Va.  
 Buenos Aires, Argentina  
 Shaker Heights, Ohio  
 New Rochelle, N. Y.  
 Richmond, Va.  
 Bloomfield, N. J.  
 E. Rockaway, N. Y.  
 Rockingham, N. C.  
 Asheville, N. C.  
 Durham, N. C.  
 Ford City, Pa.  
 Highland Park, N. J.  
 Irwin, Pa.  
 St. James, N. Y.  
 Framingham, Mass.  
 Grand Rapids, Mich.  
 Rye, N. Y.  
 High Point, N. C.  
 New York, N. Y.  
 Greeneville, Tenn.  
 Rego Park, N. Y.  
 Philadelphia, Pa.  
 Durham, N. C.  
 Princess Anne, Va.  
 Princess Anne, Va.  
 Raleigh, N. C.  
 Greensboro, N. C.  
 Cocoa, Fla.  
 Cocoa, Fla.  
 St. Petersburg, Fla.  
 Hillsboro, N. C.  
 Rising Sun, Md.  
 Paris, France  
 Pittsburgh, Pa.  
 Durham, N. C.  
 Front Royal, Va.  
 High Point, N. C.  
 Winter Park, Fla.  
 Mesa, Ariz.  
 Durham, N. C.  
 Los Angeles, Calif.  
 Birmingham, Mich.  
 High Point, N. C.  
 Torrington, Conn.  
 Durham, N. C.  
 Ashland, Ohio  
 Scarsdale, N. Y.  
 Chagrin Falls, Ohio  
 Washington, D. C.  
 Memphis, Tenn.  
 White Plains, N. Y.

- Kinneman, Robert Eugene 1  
 Kinney, Donald S. 5  
 Kirby, Jack O. 4  
 Kirby, James C. 1  
 Kircnoier, Roger Beeson  
 Kirk, Robert Dixon, Jr. 5  
 Kirkland, William H. 7 E  
 Kirsh, Herbert 7  
 Kirsh, Marvin 3  
 Kistler, David Reeves 4  
 Kistler, William H. 3  
 Klees, Robert Edwin 3  
 Klein, Lewis P., Jr. 3  
 Knabe, John R. 4  
 Knabe, Lloyd Condon, Jr. 10 E  
 Knaepen, Henry Joseph 3  
 Knight, John Whitney 7  
 Knight, Thomas G. 7 E  
 Knipmeyer, Arlie Charles 5  
 Knoess, Allan Frederick 1  
 Knott, Gerald Wesley 6  
 Knotts, Ben E., Jr. 5  
 Knotts, Don Morton 3  
 Knotts, James Terrell 6  
 Kobzina, Arnold James  
 Koestline, Charles Norman 3  
 Komlosi, Eugene James 4 E  
 Korbel, Edward Joseph 3  
 Koval, George J. 7  
 Kramme, Paul Edgar, Jr. 8  
 Krauss, Edward 7  
 Krayner, Alfred Carl 1  
 Kreider, Kenneth Richard 1  
 Krieger, Walter F. 6  
 Kritzer, Richard G. 7  
 Krout, William Alfred 6  
 Kulpan, James Neil 1  
 Kuman, Arthur 5  
 Kuman, Herbert M. 5  
 Kunkle, Harold W. 1  
 Kurzrock, Warren Walter 1  
 Kyle, Harvey Lewis 4  
 Ladshaw, Thomas Gordon 6 E  
 Lanahan, Hugh Carroll 1  
 Landau, Edward Jay 3  
 Landis, Harold Hamilton 3 E  
 Landis, Richard V. Spec.  
 Landon, Horace Gordon 3  
 Landrum, Clinton T., Jr. 3  
 Lane, Benjamin Forrest 3  
 Lane, Rembrandt Peale, Jr. 4  
 Laney, Ernest John 8  
 Lang, Frank Alexander 1  
 Lanning, Jeremy Cushman 3  
 Lanning, Richard L. 3 E  
 Lantz, William McGowan, II 7  
 Lapp, Robert E. 7  
 Larabee, Leo 6  
 Lareau, Ernest W. 7 E  
 Lark, William Frank 5 E  
 Greenfield, Ind.  
 Winston-Salem, N. C.  
 Miami, Fla.  
 Long Branch, N. J.  
 Raleigh, N. C.  
 Tupelo, Miss.  
 Durham, N. C.  
 Clover, S. C.  
 Clover, S. C.  
 Durham, N. C.  
 Creedmoor, N. C.  
 Tuckahoe, N. Y.  
 Philadelphia, Pa.  
 Catonsville, Md.  
 Catonsville, Md.  
 Ridgewood, N. J.  
 Charlottesville, Va.  
 Tampa, Fla.  
 Bellflower, Md.  
 Glen Head, N. Y.  
 Oxford, N. C.  
 Plant City, Fla.  
 Albemarle, N. C.  
 Albemarle, N. C.  
 Riverside, Ill.  
 Albemarle, N. C.  
 Lorain, Ohio  
 Douglaston, N. Y.  
 Washington, D. C.  
 Monroeville, N. J.  
 Hollis, N. Y.  
 St. Petersburg, Fla.  
 Palmyra, Pa.  
 Scotch Plains, N. J.  
 Indiana, Pa.  
 Covington, Ky.  
 Norfolk, Va.  
 New York, N. Y.  
 New York, N. Y.  
 Elyria, Ohio  
 Englewood, N. J.  
 Ada, Okla.  
 Spartanburg, S. C.  
 Durham, N. C.  
 Mt. Vernon, N. Y.  
 New Holland, Pa.  
 New Holland, Pa.  
 Eden, N. Y.  
 Palmyra, Pa.  
 Mullins, S. C.  
 Washington, D. C.  
 Daytona Beach, Fla.  
 Ft. Lauderdale, Fla.  
 Clinton, N. C.  
 Trenton, N. J.  
 Elmira, N. Y.  
 Irvington, N. J.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Hillsboro, N. C.

Larner, Edward Lee 7 E  
 Larson, Paul Ernest 3  
 LaSalle, Robert Martin 2  
 Lasley, Donald G. 6  
 Lassetter, Jack Kinney 1  
 Latimer, Richard Lee 1  
 Latta, Roderick Alan 1  
 Lau, John L. 8  
 Laughlin, Curtis Lee 1  
 Lauter, Frederic Martin 1  
 Lawson, Herbert M. 1  
 Lawton, William Stanley 7 E  
 Leach, George Carson 0  
 Leake, Medford M. 5  
 Lee, Herbert M. 5 E  
 Lee, James Edward 3  
 Lee, John Marshall, Jr. 3  
 Lee, Laurence F. 7  
 Lee, Pope Matthews 1  
 Lee, Raymond William, Jr. 3  
 Lee, Robert Emil, III 4  
 Lefler, Bayne Wesley, Jr. 1  
 LeGore, Norman Chester 3  
 Lehman, John Gress 1  
 Lehman, Maurice Robert 1  
 Leitner, Paul R. 5  
 Lenhardt, Roger Feth 1  
 Leonard, Henry Siggins, Jr. 1  
 Leonard, Robert Payne 7  
 LeValley, Victor R. 7  
 Levin, Burton E. 8  
 Levy, Foster LeRoy 5  
 Levy, Irving Hirsh 2  
 Lewis, Frank Edward 1  
 Lewis, James Kelly 7  
 Lewis, Robert Dobbins 3  
 Lillie, George Albert 5 E  
 Linaweaver, Paul Glenwood 2  
 Lindgren, Jack K. 7  
 Lindsay, Carl H. 5  
 Lindsey, John Morton 3  
 Lindsey, Willis Callaway, Jr. 6  
 Lindstrom, Malcolm Stuart 1  
 Lineberger, Henry O. 5  
 Lineberry, Joseph L. 7  
 Link, Anthony Paul 0  
 Linkous, Walter Witen 7 E  
 Linn, Bruce Oscar 1  
 Linville, Walter S., Jr. 1  
 Lipscomb, George Winfred 7 E  
 Lipscomb, Thomas 4  
 Lipson, Harold Pons 1  
 Littleton, John B. 3  
 Lively, Thomas T. 5  
 Livingston, John E. 9  
 Ilenza, Charles F. 1  
 Llewellyn, John Manning 1  
 Lloyd, Kenneth E. C. 1  
 Lloyd, Leonard W. 4  
 Loehr, John Lyle 2

Snow Hill, Md.  
 Emporium, Pa.  
 Canton, Ohio  
 Walkertown, N. C.  
 Macon, Ga.  
 Bethesda, Md.  
 Niagara Falls, N. Y.  
 Trinidad, B. W. I.  
 Greensboro, N. C.  
 Glen Rock, N. J.  
 Erwin, Tenn.  
 St. Petersburg, Fla.  
 Haw River, N. C.  
 Tupelo, Miss.  
 Baldwin, N. Y.  
 Durham, N. C.  
 Walterboro, S. C.  
 Jacksonville, Fla.  
 Biltmore Forest, N. C.  
 Providence Forge, Va.  
 Durham, N. C.  
 Cherryville, N. C.  
 Vineland, N. J.  
 Lock Haven, Pa.  
 New York, N. Y.  
 Winnsboro, S. C.  
 Washington, D. C.  
 Durham, N. C.  
 Cranford, N. J.  
 Long Branch, N. J.  
 Fishkill, N. Y.  
 Birmingham, Ala.  
 Birmingham, Ala.  
 Bailey, N. C.  
 Mt. Holly, N. C.  
 Asheville, N. C.  
 Toms River, N. J.  
 New York, N. Y.  
 St. Petersburg, Fla.  
 Burlington, N. C.  
 Montrose, N. Y.  
 Washington, Ga.  
 Oradell, N. J.  
 Raleigh, N. C.  
 Staley, N. C.  
 Rochester, N. Y.  
 Havre de Grace, Md.  
 Woodhaven, N. Y.  
 Kernersville, N. C.  
 Durham, N. C.  
 Angier, N. C.  
 Long Island City, N. Y.  
 Greenbelt, Md.  
 Atlanta, Ga.  
 Rutledge, Pa.  
 Hato Rey, P. R.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Rochester, N. Y.

- Loftin, Horace G. 4  
 Loneragan, Robert Colnon 5  
 Long, Charles Abner, Jr. 3  
 Long, John Courtenay 7  
 Longley, James B., Jr. 1  
 Loomis, Robert Duane 6  
 Lord, Melvin Henry, Jr. 2 E  
 Loser, Theodore C., Jr. 5 E  
 Lott, Charles Howell 1  
 Lott, John Edwin 1  
 Loub, Arthur Frederick 1  
 Lounsbury, Richard Earl 3  
 Love, Thomas Anderson 5  
 Lowe, Elwyn Hardin 3 E  
 Lowe, Gentry H. 4  
 Lowenthal, Daniel A., Jr. 1  
 Lowndes, Charles L. B., Jr. 3  
 Lucas, Charles D. 3 E  
 Lucas, Charles F. 4  
 Lucas, David Michael 3 E  
 Lucas, Marvin Wilson 7 E  
 Lucas, Robert Theodore, Jr. 5  
 Lucas, Swain Seaton 5 E  
 Lucas, William Reed 1  
 Ludlum, Warren O. 7  
 Lugar, Ashby G., Jr. 1  
 Lunsford, Thomas Vickers 7  
 Lupton, Frederick Arthur, Jr. 7  
 Lustig, George Alexander 2  
 Lutton, Gerald Clark 1  
 Lutz, William A. 5  
 Lyle, Berton E. 5  
 Lynch, Edward C. 3  
 Lynch, George C. 1  
 Lynch, Hal L., Jr. 3  
 Lynch, Luby R. 7  
 Lynch, Walter Kenneth 1  
 Lyon, Arthur S. 6  
 Lyon, George W. 5 E  
 Lyons, Jerald Baar 1  
 McAdams, John L. 5  
 McAlduff, Thomas Philip 9  
 McAllister, Douglas H. 5  
 McAnerney, Marshall J., III 1  
 McCain, Fillmore Hugh 3  
 McCain, William Warren 1  
 McCall, Benjamin Waring 1  
 McCall, Loyd H., Jr. 3 E  
 McCauley, Thomas H. 5  
 McClamroch, William Porter Spec.  
 McClannan, Ralph Leslie 1  
 McColley, Charles S. 5  
 McConnell, Arthur Weir 3 E  
 McConnell, Elliott B., Jr. 3  
 McConnell, John W. 7  
 McCracken, Harold C. 5 E  
 McCraw, Ray Clifton 3  
 McCullen, Donald 5  
 McCusker, Edward F. 7  
 McDonald, Duard Ray 1  
 Beaufort, N. C.  
 St. Petersburg, Fla.  
 Durham, N. C.  
 Hamden, Conn.  
 Baltimore, Md.  
 Plain City, Ohio  
 W. Caldwell, N. J.  
 Jonestown, Pa.  
 Plainfield, N. J.  
 Kansas City, Mo.  
 Amityville, N. Y.  
 Seymour, Conn.  
 Durham, N. C.  
 Jacksonville, Fla.  
 Portsmouth, Va.  
 Baltimore, Md.  
 Durham, N. C.  
 Matthews, N. C.  
 Nashville, Tenn.  
 Matthews, N. C.  
 Lucama, N. C.  
 Shreveport, La.  
 Durham, N. C.  
 Nashville, Tenn.  
 Batesburg, S. C.  
 Oceana, W. Va.  
 Haines City, Fla.  
 Durham, N. C.  
 Bronx, N. Y.  
 Harmony, Pa.  
 Shelby, N. C.  
 Tupelo, Miss.  
 Somerset, Mass.  
 Anchorage, Alaska  
 Jacksonville, Fla.  
 Wilmington, N. C.  
 Bowling Green, S. C.  
 Durham, N. C.  
 Durham, N. C.  
 Englewood, N. J.  
 Rocky Mount, N. C.  
 Garden City, N. Y.  
 Durham, N. C.  
 Plandome, N. Y.  
 Portsmouth, Va.  
 Elizabeth City, N. C.  
 Jacksonville, Fla.  
 Charlotte, N. C.  
 Durham, N. C.  
 Greensboro, N. C.  
 Norfolk, Va.  
 Rock Hill, S. C.  
 Birmingham, Ala.  
 Cleveland, Ohio  
 Ashland, Pa.  
 Douglaston, N. Y.  
 Glen Rock, N. J.  
 Maplewood, N. J.  
 Endicott, N. Y.  
 Okmulgee, Okla.



McDonald, Joseph Frank	7	Brooklyn, N. Y.
McDonald, Keith Dooley	1	Alexandria, Va.
McDonald, Robert Kyle	3	Gastonia, N. C.
McDougald, Robert Eubanks	3	Bayside, N. Y.
McEldowney, Thomas C.	8	Charleston, W. Va.
McFadden, Alexander B.	5	Rock Hill, S. C.
McFadden, Robert Lawrence	3	Rock Hill, S. C.
McGehee, Clifford Graham	5	Jacksonville, Fla.
McGeough, Robert S.	1	Chardon, Ohio
McGerity, Joseph Loehr	5	W. Palm Beach, Fla.
McGill, Ira Leon, Jr.	2	Laurinburg, N. C.
McGowan, Donald Martin	8	Asheville, N. C.
McGranahan, Fred Nelson, Jr.	3	Durham, N. C.
McGranahan, William Scott	3	Durham, N. C.
McGuire, John Joseph	1	Miles City, Mont.
McGuire, Robert D.	3	Asheville, N. C.
McGuire, Victor Virgil, Jr.	5	Asheville, N. C.
McKay, James A., Jr.	3	Asheville, N. C.
McKee, Charles Albert	1	Laurel, Miss.
McKeever, Earle Alexander	1	Johnstown, Pa.
McKelvie, Milton James	3 E	Kings Mountain, N. C.
McKenzie, Claude Fleatus	1	Athens, Tenn.
McKeown, Beverly Hicks	10	Memphis, Tenn.
McKeown, Earle W.	2	Nashau, N. H.
McKittrick, Charles E.	5	Scarsdale, N. Y.
McLaulin, Johnnie C., Jr.	3	Danville, Va.
McLean, Earl Daniel, Jr.	6	Columbia, Miss.
McLean, Howard Jones	5 E	Tampa, Fla.
McLean, Robert Davidson	1	Tampa, Fla.
McLean, William Campbell, Jr.	Spec.	Tampa, Fla.
McLemore, Ralph Stuart	1	Macon, Ga.
McLendon, Preston A., Jr.	5	Washington, D. C.
McLennan, Louis Watson	3	Atlanta, Ga.
McLeod, David Emery	1	Tenafly, N. J.
McLeod, Henry L. Spec.		Johns, N. C.
McLeod, Leroy L.	3	Durham, N. C.
McLeod, Robert Franklin	3	Southern Pines, N. C.
McMahon, James G., Jr.	3	Wilmington, Del.
McMahon, William Wallace	7 E	St. Petersburg, Fla.
McMaster, Fitz-John Creighton	3	Winnsboro, S. C.
McMasters, Lew L., Jr.	5	St. Petersburg, Fla.
McMillan, Marcus	1	Larchmont, N. Y.
McMullan, Philip S., Jr.	1	Edenton, N. C.
McNair, Barak	1	Lakeland, Ga.
McNair, Conrad Buchanan	1	Macon, Ga.
McNamara, Thomas Neal	1	Silver Spring, Md.
McNeer, Fred Arnold, Jr.	5	Durham, N. C.
McRae, William Davis	3 E	DeLand, Fla.
Maass, William Harold	3 E	Glen Rock, N. J.
Mabry, Edward B.	5	Greensboro, N. C.
Mabry, Henry Filmore	3	Greensboro, N. C.
MacDonald, Alan G.	3 E	Old Greenwich, Conn.
MacDonald, Weldon B.	5	Haverhill, N. H.
MacDowell, Frederick, Jr.	5	Newburgh, N. Y.
MacFarlane, John Granger	3	Chevy Chase, Md.
Machamer, Richard Frederick	3 E	Johnson City, Tenn.
Machek, Andrew	4	Durham, N. C.
Macht, Stuart Martin	3 E	Baltimore, Md.
Mack, Leslie Eugene	2	Washington, D. C.
Maddox, Houston Noble	1	Seven Springs, N. C.

- Magaw, Malcolm O. 5  
 Major, Howard L. 5 E  
 Makris, John E. 1  
 Mallonee, Richard C., Jr. 7 E  
 Malone, Robert William 1  
 Malyniak, Joseph 1  
 Manegan, Warren R. 2  
 Mangum, Lawrence D. 6  
 Mann, Walter Robert 7  
 Manning, Kenneth R. 8  
 Marhalik, Edward Michael 0  
 Marjenhoff, August John 3  
 Markham, John Leslie 7  
 Marlow, Ernest Grant 7  
 Marple, Thomas P. 1  
 Marshall, Robert Edward 0  
 Marshall, Ted Hall 8  
 Martens, Harry A. 1  
 Martin, David Cooper 1  
 Martin, James Arthur, Jr. 1  
 Martin, John Daniel 3 E  
 Martin, Linville Kerr, Jr. 1  
 Martin, Richard Charles 4  
 Martin, Robert Bruce 1  
 Martin, William G. 6  
 Martinelli, William J. 5  
 Marx, Paul Henry 5  
 Mason, Reed 7  
 Massey, James Andrew, Jr. 0  
 Massey, William Everard, Jr. 5  
 Masteller, Daryl Edwin 3  
 Mathers, Robert Wesley 4  
 Matheson, James Leonard 3  
 Matlock, Jack F. 4  
 Matton, David Jeffreys 3  
 Matton, Lawrence C., Jr. 5  
 Mattox, Huit Everett, Jr. 3  
 Mauney, Edgar Alonzo, Jr. 3  
 Mauney, Eugene S. 5  
 Mauney, William S. 3  
 Maury, Carlos H. 1  
 Maury, Ernest, Jr. 7  
 Maxwell, John W. 3  
 May, Cecil Dalton 1  
 Mayo, Jesse Claude, Jr. 6  
 Mays, Alexander Alen 8  
 Meacham, Hudson P., Jr. 7 E  
 Mead, Dayton Richard, Jr. 1  
 Mebane, Giles Yancey 3  
 Meekins, James Claiborne 5 E  
 Meier, Charles Donald 5  
 Melton, Nichols Joseph 3 E  
 Melton, Robert Allen 3  
 Melton, Robert Witcher 7  
 Memmoli, Richard Otto 1  
 Mendenhall, John Henry 6  
 Menken, Kenneth Andrews 1  
 Meredith, Michael George 1  
 Meredith, Winfield Scott 6  
 Merlin, Howard Robert 3 E  
 Oregon, Ill.  
 Pensacola, Fla.  
 Newark, Ohio  
 Ft. Bragg, N. C.  
 Park Ridge, Ill.  
 Nesquehoing, Pa.  
 New York, N. Y.  
 Creedmoor, N. C.  
 Tallahassee, Fla.  
 Durham, N. C.  
 Wilkes-Barre, Pa.  
 Charleston, S. C.  
 St. Petersburg, Fla.  
 Front Royal, Va.  
 Haddonfield, N. J.  
 Brooklyn, N. Y.  
 Camden, S. C.  
 Bay City, Mich.  
 York, Pa.  
 Oak Hill, W. Va.  
 Chatham, N. J.  
 Winston-Salem, N. C.  
 Brooklyn, N. Y.  
 Tenaflly, N. J.  
 Portsmouth, Va.  
 Covington, Va.  
 Atlanta, Ga.  
 Cleveland, Ohio  
 Princeton, N. C.  
 Charlotte, N. C.  
 Asheboro, N. C.  
 Miami, Fla.  
 Mount Gilead, N. C.  
 Greensboro, N. C.  
 Louisville, Ky.  
 High Point, N. C.  
 Bluefield, W. Va.  
 Lincolnton, N. C.  
 Wilmington, N. C.  
 Maiden, N. C.  
 Caracas, Venezuela  
 Caracas, Venezuela  
 Bethesda, Md.  
 New Bern, N. C.  
 Rocky Mount, N. C.  
 Pittsburgh, Pa.  
 Orlando, Fla.  
 Miami Beach, Fla.  
 Raleigh, N. C.  
 High Point, N. C.  
 Evanston, Ill.  
 Durham, N. C.  
 Wilmington, N. C.  
 Brevard, N. C.  
 Jamaica, N. Y.  
 Orlando, Fla.  
 Loch Arbour, N. J.  
 Chevy Chae, Md.  
 Jamestown, N. Y.  
 Brooklyn, N. Y.

Merritt, Glen Carl	2 E	Greensboro, N. C.
Merritt, Mervin Frank	0	Greensboro, N. C.
Merritt, William Duke	6	Durham, N. C.
Merwarth, Charles Richard	1	Cranford, N. J.
Metcalf, Boyd H.	6	Chevy Chase, Md.
Meuche, Leon T., Jr.	6	Dayton, Ohio
Meyer, Gerhard H.	4	Flushing, N. Y.
Miazza, Martin Flood	1	Gulfport, Miss.
Michalek, Donald Richard	1	Westfield, Mass.
Mickle, Andrew	5 E	Winston-Salem, N. C.
Middlesworth, Chester Paul	8	Statesville, N. C.
Middleton, David John	5	Warsaw, N. C.
Midgett, Peleg Dameron, III	8	Engelhard, N. C.
Midgett, Robert Bryant	1	Raleigh, N. C.
Millard, Robert Fredrick	2	Bristol, Tenn.
Miller, Abraham Stanley, Jr.	1	Belleville, N. J.
Miller, David Edmond	1	Elizabeth City, N. C.
Miller, Fred J.	6	Burlington, N. C.
Miller, Jack Upshaw	3	Coral Gables, Fla.
Miller, John Raymond	5	Wilson, N. C.
Miller, Marvin Vincent	5 E	Durham, N. C.
Miller, Neal Donald	3	Hummelstown, Pa.
Miller, Paul Joseph	3 E	Baltimore, Md.
Miller, Robert Allen	1	Key West, Fla.
Miller, Robert Wesley	5	Mountain Lakes, N. J.
Miller, Ulrick Ray, Jr.	5	Salisbury, N. C.
Miller, Vaughn	3	Lookout Mountain, Tenn.
Miller, Victor John	7	Virginia Beach, Va.
Miller, William Francis	7 E	Youngstown, Ohio
Miller, William James	7	Winnsboro, S. C.
Milling, James Reaves	0	Darlington, S. C.
Milstead, William Malcolm	3	Winston-Salem, N. C.
Mims, Dewey S.	5	Durham, N. C.
Mincey, James Haywood	5 E	Durham, N. C.
Mingus, Henry Sigmon	5 E	Durham, N. C.
Minick, John Ervin	2	Detroit, Mich.
Minton, Richard Raymond	5 E	New Canton, Ill.
Mitchell, Billy P.	1	Fairmont, N. C.
Mitchell, David C.	1	Detroit, Mich.
Mitchell, Donald Walcutt	1	Summit, N. J.
Mitchell, George S.	5	Hilton Village, Va.
Mitchell, Monroe Sellers	3 E	Oreland, Pa.
Mitchell, Robert Kell	5	Cary, N. C.
Mitchell, William Edward	3	Lynnbrook, N. Y.
Mitchell, William Hoyle	5	Henderson, N. C.
Moeller, Robert Henry, Jr.	5	Charlotte, N. C.
Montague, Richard B.	7	Durham, N. C.
Montgomery, John	6	Miami, Fla.
Montross, Franklin, III	1	Chappaqua, N. Y.
Monts, Jack William	3	Miami Springs, Fla.
Moor, Marion McLemore	1	Greenwood, Miss.
Moore, Burt Hitchcock	3	Raleigh, N. C.
Moore, Donald Reese	8	Ridley Park, Pa.
Moore, Edwin G., II	8	Durham, N. C.
Moore, Elijah Francis, Jr.	4	Macon, Ga.
Moore, Nelson Rist, Jr.	6	Vanderbilt, Pa.
Moore, William P., Jr.	7 E	Greenville, N. C.
Moore, William Travis	3	Durham, N. C.
Moore, William Yelton	3 E	Winston-Salem, N. C.
Moorhead, Sam R.	5	Anderson, S. C.

- Morgan, Everett L. 6  
 Morgan, Joseph P. 11 E  
 Morgan, Millard F., Jr. 1  
 Morgan, Olen Eben 7  
 Morgan, Thomas Edward, Jr. 3  
 Moriarty, Peter Manx 3  
 Morris, Howard F. 6  
 Morris, Thomas W. 3  
 Morton, Gerald Ketchum 1  
 Moser, Daniel Boone 3  
 Mosier, Edward R. 5  
 Mostellar, Henry Curtis 1  
 Mote, William Eugene 2  
 Mougey, Paul Howard 3  
 Mounie, John Robert, Jr. 3  
 Mousmoules, John 5  
 Moylan, Edward N. Spec.  
 Mueller, John George 1  
 Mulligan, Alla Purse, Jr. 8  
 Mullin, James Louis 6 E  
 Mullinax, Perry Franklin 1  
 Mullinix, Howard Earl, Jr. 5  
 Munies, Richard Earl 1  
 Mundy, Elbert Johnson, Jr. 3  
 Murph, Daniel S., Jr. 5 E  
 Murphy, Robert E. 1  
 Murray, John Kevin 8  
 Murray, John Poole 3  
 Murray, Malcolm Gibson, Jr. 1  
 Musser, Robert L. 5  
 Myers, Duane W. 1  
 Myers, John E. 3 E  
 Myers, William C. 5  
 Nabors, James Joseph 3  
 Nabow, Stanley E. 8 E  
 Nania, Frank 3  
 Naylor, William C. 4  
 Naylor, Edward Joseph 1  
 Neal, Charles Bodine, III 3  
 Neal, Henry Douglas 1  
 Neal, Phil Hudson 5  
 Neal, Ralph John 1  
 Needham, George Richard 1  
 Neely, Edward Rex, Jr.  
 Neely, William Bruce 5 E  
 Nelson, Donald Palmer 7  
 Nelson, Merlyn Alfred 3  
 Nelson, Richard Copeland 1  
 Nelson, Ronald Prescott 1  
 Nelson, William Edward 7  
 Nesbit, Charles Lovette 1  
 Nesslinger, Ralph O. 1  
 Newcomb, William R. 5  
 Newell, Bruce, Jr. 7  
 Newhouse, Wilfred J. 5  
 Newman, Edmund Henry 3 E  
 Newman, Ernest Gustave Spec.  
 Newman, Marvin J. 5 E  
 Newman, Robert Loyd 5  
 Newton, Robert Julius, Jr. 7  
 Salisbury, N. C.  
 New York, N. Y.  
 Bailey, N. C.  
 Albemarle, N. C.  
 Jacksonville Beach, Fla.  
 Annapolis, Md.  
 Greensboro, N. C.  
 Durham, N. C.  
 Wilmington, N. C.  
 Gastonia, N. C.  
 Uniontown, Pa.  
 Mobile, Ala.  
 Hapeville, La.  
 Chevy Chase, Md.  
 Petersburg, Va.  
 Durham, N. C.  
 Miami, Fla.  
 Okmulgee, Okla.  
 Greensboro, N. C.  
 Norristown, Pa.  
 Richmond, Va.  
 Round Bay, Md.  
 Teaneck, N. J.  
 Jacksonville, Fla.  
 Washington, D. C.  
 Spencerport, N. Y.  
 Elmhurst, N. Y.  
 Camden, N. J.  
 Ellwood City, Pa.  
 Salem, Ohio  
 Brookville, Pa.  
 Montclair, N. J.  
 Williamston, N. C.  
 Winfield, Ala.  
 Charlotte, N. C.  
 Middletown, N. Y.  
 Leonardtown, Md.  
 Bayonne, N. J.  
 Millville, N. J.  
 Pee Dee, N. C.  
 Birmingham, Ala.  
 Durham, N. C.  
 Conneaut, Ohio  
 Atlanta, Ga.  
 High Point, N. C.  
 Pinehurst, N. C.  
 Durham, N. C.  
 Monroe, Va.  
 Longmeadow, Mass.  
 Philadelphia, Pa.  
 Pleasant Garden, N. C.  
 Staten Island, N. Y.  
 Huntington, W. Va.  
 Roxboro, N. C.  
 Rutherford, N. J.  
 Irvington, N. J.  
 Pensacola, Fla.  
 Brooklyn, N. Y.  
 Leaksville, N. C.  
 Greenville, S. C.



Newton, Walter C. 3 E  
 Nial, Thomas Louis 1  
 Nichol, Robert J. 6  
 Nichols, Francis Alexander 1  
 Nichols, John Livingstone 1  
 Nicholson, James Lloyd, Jr. 3  
 Nicholson, William Edward 3  
 Nickerson, Charles A. 7  
 Nidermaier, Joe M. 1  
 Niemierzycki, Eugene John 5  
 Ninos, George S. 7  
 Nixon, Edward Calvert 0  
 Noel, William Lee 1  
 Noell, Algernon S., Jr. 3 E  
 Noggle, Burl Lee 3  
 Nolan, Virgil A. 7  
 Norris, Earl J. 7 E  
 Northam, Richard Alan 3  
 Norton, Dudley Marshall 0  
 Norton, Zane Grey 7  
 Norwood, Olin W., Jr. 1  
 Norwood, Wilkins 7  
 Novick, Marshall Irwin 3  
 Null, Richard B. 7  
 Nunn, Delmas Coleman, Jr. 3  
 Nunn, Roland Cicero 1  
 Nuttle, Elbert Ray 5 E  
 Obarrio, Gabriel R. de 2  
 Obarrio, Rodolfo de 3 E  
 O'Brien, Donald Q. 7  
 O'Donovan, Denis Leo 1  
 Oglukian, Raymond Levon 1  
 O'Leary, James Joseph 5  
 Olive, Ryland W., Jr. 7 E  
 Oliver, Frank Vern 1  
 Oliver, Manton M. 1  
 Olivera, Hugo Valentin 1  
 Ollen, Walter George 8  
 O'Mansky, Samuel Isaac 1  
 Ormand, William Leon 1  
 Ornoff, Benjamin 3 E  
 Orr, Harry Allen, Jr. 3  
 Ortolf, Karl George 6  
 Orzano, Joseph E. 3  
 Orzano, Randel M. 3  
 Orzech, Edward G. 5  
 Osborn, Robert Emerson 2  
 Osborne, James Nelson 5 E  
 Osborne, John Coughlin 8  
 Osborne, William Norris 1  
 O'Steen, Arthur Marion 1  
 Oster, Howard S., Jr. 3  
 Otis, George Leslie, Jr. 3 E  
 Overdorff, James Virgil 3  
 Overton, Harold Lane 1  
 Owen, Edsel M. 1  
 Owens, Dean Paul 1  
 Owens, Edgar Hart 1  
 Ozment, Jere Marr 1  
 Padgett, Glenn E. 7

Durham, N. C.  
 Ft. Lauderdale, Fla.  
 St. Petersburg, Fla.  
 Woodbridge, N. J.  
 East Aurora, N. Y.  
 Raleigh, N. C.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Kingsport, Tenn.  
 New Britain, Conn.  
 Lockport, N. Y.  
 Menges Mills, Pa.  
 Birmingham, Ala.  
 Durham, N. C.  
 Durham, N. C.  
 Rome, Ga.  
 Durham, N. C.  
 Wilmington, Del.  
 Cazenovia, N. Y.  
 Raeford, N. C.  
 Jasper, Fla.  
 Durham, N. C.  
 Winchester, Va.  
 Gettysburg, Pa.  
 Marietta, Ga.  
 Miami, Fla.  
 Darlington, Md.  
 Panama  
 Panama  
 Maplewood, N. J.  
 Miami, Fla.  
 Charlotte, N. C.  
 New Brunswick, N. J.  
 Charlotte, N. C.  
 Palatka, Fla.  
 Reidsville, N. C.  
 Havana, Cuba  
 Jamaica, N. Y.  
 Leaksville, N. C.  
 Bessemer City, N. C.  
 Durham, N. C.  
 Greenville, S. C.  
 Bridgeton, N. J.  
 Baldwin, N. Y.  
 Baldwin, N. Y.  
 Shenandoah, Pa.  
 West Orange, N. J.  
 Kent, Ohio  
 Glen Burnie, Md.  
 Hayti, Mo.  
 Durham, N. C.  
 Ashland, W. Va.  
 Atlanta, Ga.  
 Johnstown, Pa.  
 Durham, N. C.  
 Durham, N. C.  
 Staten Island, N. Y.  
 Louisburg, N. C.  
 Dyersburg, Tenn.  
 Marianna, Fla.

- Page, Jackie O'Neal 3  
 Page, Talmadge D. 6  
 Pagter, Amos Townsend, Jr. 3  
 Palladino, Fred 7  
 Palmer, Cecil Albert 5 E  
 Palmer, Kenneth F. 2  
 Palmore, Erdman P. 1  
 Palumbo, Edward Arthur Spec.  
 Pandolfo, Patrick A. 7  
 Parker, Harry Lynn, Jr. 1  
 Parker, James Bruce 5 E  
 Parker, Leonard Alden 1  
 Parker, M. Vann 6  
 Parker, Richard M. 7  
 Parkerson, George Robert, Jr. 5  
 Parkhurst, Robert Louis 8  
 Parks, Robert Kenneth 3  
 Parks, Robert Louis 5  
 Parnell, James T. 5 E  
 Parrish, Diuguid Beirne 1  
 Parrish, Edwin C. 3 E  
 Parrish, Elbert Adrian 4  
 Parrish, Fred Kenneth 0  
 Parrish, Joseph Alfred G. 5  
 Parry, John Fowler 5  
 Partain, Eugene Gartly 1  
 Past, Si Alexander, Jr. 7  
 Pate, Robert P. 3  
 Patrick, John Earle 1  
 Patterson, Daniel W. Spec.  
 Patterson, Sam Polk 3  
 Patton, Frank Caldwell 6  
 Paul, Albert Benner 1  
 Paules, William Roger 7  
 Paulsen, Charles Richard 3  
 Pavloff, George 1  
 Pavuk, Myron G. 2  
 Peacock, James Daniel 1  
 Peake, Frank E. 0  
 Peake, Robert Sanders 7  
 Pearce, Robert M. 3  
 Pearson, Alden Bryan, Jr. 1  
 Pearson, Eugene D. 3 E  
 Peele, William Oscar, Jr. 5  
 Peebles, Paul W. 9  
 Pegram, Paul Ogburn, Jr. 2  
 Pepper, George 1  
 Pereira, Woodrow H. 4  
 Perez, Pierre 1  
 Pergrem, Ernest Bernard 3 E  
 Perkinson, Carl Joseph 5  
 Perkinson, Seth Jones, Jr. 3  
 Perry, Thomas Ronald 5  
 Persechino, Mario A. 5 E  
 Person, James Ellis 7 E  
 Peterson, Joseph Miller 1  
 Peterson, Robert Taylor, Jr. 3  
 Petrushik, Peter 1  
 Pfachler, Carl Richard 5  
 Pfann, John Richard 5  
 Rockingham, N. C.  
 Rockingham, N. C.  
 Washington, D. C.  
 Verona, N. J.  
 Crystal Hill, Va.  
 Crystal Hill, Va.  
 Hampton, Va.  
 Orange, N. J.  
 Vineland, N. J.  
 Spartanburg, S. C.  
 Dunn, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Philadelphia, Pa.  
 Macon, Ga.  
 Sparta, N. J.  
 Nelsonville, Ohio  
 Sarasota, Fla.  
 Summit Hill, Pa.  
 Huntington, W. Va.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Norfolk, Va.  
 Chattanooga, Tenn.  
 Paragould, Ark.  
 Creedmoor, N. C.  
 La Grange, N. C.  
 Charlotte, N. C.  
 Greensboro, N. C.  
 Memphis, Tenn.  
 Morganton, N. C.  
 Upper Darby, Pa.  
 York, Pa.  
 Shorewood, Wis.  
 Munhall, Pa.  
 Jessup, Pa.  
 Baltimore, Md.  
 Arlington, Va.  
 Arlington, Va.  
 Shelbyville, Ky.  
 Raleigh, N. C.  
 New York, N. Y.  
 Williamston, N. C.  
 Estill, S. C.  
 Winston-Salem, N. C.  
 Bronx, N. Y.  
 New York City, N. Y.  
 Las Villas, Cuba  
 Ashland, Ky.  
 Asheville, N. C.  
 Asheville, N. C.  
 Shenandoah, Pa.  
 Torrington, Conn.  
 Portsmouth, Va.  
 Buffalo, Ky.  
 Rutherford, Tenn.  
 Franklin, N. J.  
 Charlotte, N. C.  
 Mt. Lakes, N. J.

Phillips, Carroll Preston	1	Memphis, Tenn.
Phillips, Joe R.	3 E	Winston-Salem, N. C.
Pickett, Earl Judson	7 E	Durham, N. C.
Pickett, Hubert W., Jr.	5 E	Durham, N. C.
Pickett, William Harry	5	Durham, N. C.
Piephoff, Zachary Taylor	1	Greensboro, N. C.
Pierce, Henry J.	6	Durham, N. C.
Pierce, John Arthur	5	Ocean Grove, N. J.
Pierce, Walter Morgan, Jr.	7	Coral Gables, Fla.
Pierce, William Howard	4	Ashtabula, Ohio
Piglowski, Alphonse A.	0	Depew, N. Y.
Pike, George Russell	1	Lynn, Mass.
Pippel, Richard Wright	1	Glassboro, N. J.
Pischel, Richard Anton	1	New York, N. Y.
Pitt, Jack Anderson	5 E	Westfield, N. J.
Plaster, Henry G., Jr.	5	Washington, D. C.
Plimpton, Hollis Winslow, Jr.	2	Miami Beach, Fla.
Pogany, Ernest J.	5 E	Bridgeport, Conn.
Polier, Arthur	7	Raleigh, N. C.
Polinger, David Harris	6	Mt. Vernon, N. Y.
Polk, Ted P.	5	Hamlet, N. C.
Pollack, Jack Robert	2	Flushing, N. Y.
Pollock, James Harold	1	Westerville, Ohio
Pomerooy, Charles Edward	1	Louisville, Ky.
Poole, Elliott Bruce	3	Jamesburg, N. J.
Porter, David Gordon	7	Lenoir, N. C.
Porter, Robert Alton	5	Savannah, Ga.
Poss, Henry Maurice	1	Chattanooga, Ten.
Poston, Howard H., Jr.	5	Kingstree, S. C.
Poston, Nathaniel Avent	10	Florence, S. C.
Poteat, George Albert	5 E	Danville, Va.
Poteet, Jamie T.	6	San Angelo, Texas
Poulnot, Edwin Hugher	8	Charleston, S. C.
Powell, William C., Jr.	2	Jacksonville, Fla.
Powers, Noyes T.	3	Cumberland, Md.
Premo, Don Allen	3 E	Durham, N. C.
Prentiss, James Hendry	6	Durham, N. C.
Price, Charles Russell	3	Summerville, S. C.
Price, Richard Glenn, Jr.	5	Greer, S. C.
Price, Robert McCollum, Jr.	1	New York, N. Y.
Price, William Knox, Jr.	1	Charlotte, N. C.
Priemer, August B.	7	New York, N. Y.
Priester, John David	3 E	Davenport, Iowa
Prior, Freeman G.	7	Falls Church, Va.
Pritchard, Robert H., Jr.	1	Washington, D. C.
Privett, George Phillips, Jr.	3	Ft. Monroe, Va.
Privette, Herbert Gregg	6	Lake View, S. C.
Probert, Kenneth Denton	1	Kingsville, Md.
Proctor, Dan Moore	1	Durham, N. C.
Proctor, Thomas Lee	5	Glen Ridge, N. J.
Propst, Arnold M.	3	Maiden, N. C.
Propst, Clyde L., Jr.	5	Concord, N. C.
Pryor, Frank Pierson	2	Newhall, Calif.
Ptaschinski, George H.	10	Newark, N. J.
Pullen, Dale D.	3	Miami, Fla.
Pullen, Irving Wendell	3	Claremont, N. H.
Purves, Richard Eugene	3	Washington, D. C.
Purvis, Julius Henry	6	Belhaven, N. C.
Putman, David D.	1	Greenville, S. C.
Putnam, Gerrie Price	8	Washington, D. C.

- Putnam, John Graves, Jr. 3  
 Pyatt, Clyde Dwight 7  
 Pyle, Robert Henry 3  
 Quain, John Joseph 7  
 Query, Erwin Leavitt 3  
 Quinn, Arthur Mellor, Jr. 1  
 Rabley, Joseph E. 8  
 Radner, Sanford R. 2  
 Raebeck, Charles 7  
 Raisch, Robert Simpson 3 E  
 Ralph, Donald B. 4  
 Ramsay, William Thaddaeus 5  
 Ramsey, Robert Wayne 4  
 Rankin, Frank L., Jr. 1  
 Rankin, Harold Eugene, Jr. 1  
 Rasberry, Robert Pittman, Jr. 1  
 Rauch, Robert Joseph 7  
 Rawlings, Charles Edward, Jr. 7  
 Ray, Herbert Howard 3  
 Ray, Jack L. 7  
 Raynid, Alan 1  
 Reap, Charles A., Jr. 1  
 Reece, Oscar E. 5  
 Reed, Gordon A. 5  
 Reed, Myron George, II 1  
 Reep, Bryan Rufus 3  
 Reese, John E. 6  
 Reeves, Ernest Gene 1  
 Reeves, Jerry Healand 3  
 Reeves, Thomas Charles 5  
 Regan, James Robert, Jr. 7  
 Reid, Carl T. 2  
 Reid, Frank Albert 1  
 Reinhart, Henry P. 3 E  
 Renfrow, Leslie H. 3  
 Renfrow, Robert Perry 3  
 Renuart, Adhemar William 1  
 Revel, John 5  
 Reyle, Bruce William 1  
 Reynolds, Joseph Charles 1  
 Reynolds, Raymond Earl 3  
 Rhame, John Marion, Jr. 7 E  
 Rhea, William Paul 7 E  
 Rhine, Robert E. 7  
 Rhodes, Dean A. 3  
 Rhodes, Wade W., Jr. 6  
 Ricca, Samuel Joseph 4  
 Rice, Ernest Hillman 5  
 Rice, Milton B. 5  
 Rice, William Henry 3  
 Rich, Robert Ellett 7  
 Richardson, Roy Gerald 1  
 Richeson, Raymond McGready 7  
 Richmond, Lewis Cass, Jr. 5  
 Rickard, Robert S. 3  
 Rickey, Robert Musser 0  
 Ridenhour, Robert Lee 8  
 Ridout, Robert Charles 3 E  
 Rigioni, Rodrigo 8  
 Rigsbee, William Alton 5  
 Buffalo, N. Y.  
 Balfour, N. C.  
 N. Muskegon, Mich.  
 South Orange, N. J.  
 Charlotte, N. C.  
 Cheltenham, Pa.  
 Durham, N. C.  
 Monroe, N. Y.  
 Durham, N. C.  
 Detroit, Mich.  
 Durham, N. C.  
 Rocky Mount, N. C.  
 Newport News, Va.  
 Mount Holly, N. C.  
 Willoughby, Ohio  
 Kinston, N. C.  
 Cedarhurst, N. Y.  
 Jarratt, Va.  
 Winston-Salem, N. C.  
 Myrtle Beach, S. C.  
 Washington, D. C.  
 Albemarle, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Colombia, South America  
 Raleigh, N. C.  
 Berwyn, Md.  
 Chattanooga, Tenn.  
 Greenville, S. C.  
 Charleston, W. Va.  
 Troy, N. C.  
 Rosehill, N. C.  
 Grosse Pointe, Mich.  
 Durham, N. C.  
 Lucama, N. C.  
 High Point, N. C.  
 Miami, Fla.  
 Charleston, S. C.  
 Fair Lawn, N. J.  
 Asheville, N. C.  
 Penns Grove, N. J.  
 Bishopville, S. C.  
 Kansas City, Mo.  
 Durham, N. C.  
 Columbia, S. C.  
 Portsmouth, Va.  
 Hammonont, N. J.  
 Durham, N. C.  
 Dyersburg, Tenn.  
 Macon, Ga.  
 Washington, D. C.  
 Columbia, Pa.  
 Ashland, Va.  
 Milton, W. Va.  
 East Orange, N. J.  
 Chicago, Ill.  
 Kannapolis, N. C.  
 Pelham, N. Y.  
 Grecia, Costa Rica  
 Durham, N. C.



Ring, Clay Vance, Jr. 1	Kernersville, N. C.
Rink, Robert F. 1	Pittsburgh, Pa.
Riordan, William C. 5	Kingsville, Md.
Kitchie, Lee Robert 1	Huntington, W. Va.
Robbins, Guy L. 7 E	Greensboro, N. C.
Roberts, Charles Buck 1	Durham, N. C.
Roberts, Ray Crouse, Jr. 5	Gastonia, N. C.
Roberts, William R. 5 E	Leland, Miss.
Robertson, William Badger 5	Mt. Sterling, Ky.
Robin, Clayton, Jr. 6	White Plains, N. Y.
Robinson, Albert Donald 1	Rutherford, N. J.
Robinson, Warren Holt 5	Charlotte, N. C.
Robnett, Joe J., Jr. 7 E	Durham, N. C.
Roe, John M., Jr. 1	Okeechobee, Fla.
Rogers, Robert Taylor 1	Durham, N. C.
Rogers, William Henry 1	Durham, N. C.
Rogers, William Plummer 3	Charleston, S. C.
Rogers, William Michael 3	Chevy Chase, Md.
Ronca, Paul Crane 1	Niagara Falls, N. Y.
Rose, Carl P. 3	Rocky Mount, N. C.
Rose, Charles Alexander 5	Wilmington, N. C.
Rose, Charles K. 5	Allentown, Pa.
Rose, Elwood Hines 5 E	Rocky Mount, N. C.
Rose, Louis Langford 1	Charlotte, N. C.
Roseberry, Philip Leon 3	York, Pa.
Rosemond, Robert Malone 5	Charleston, S. C.
Rosenberg, Dietrich F. 3	Binghamton, N. Y.
Rosenberg, Edward Robert 5	Binghamton, N. Y.
Rosenberg, Jac A. 5	Memphis, Tenn.
Rosenberg, Robert Harold 3	Newton Centre, Mass.
Ross, Earl J. 5	Durham, N. C.
Ross, James V. 3	Easton, Pa.
Ross, John Joseph 3	Jacksonville, Fla.
Ross, Joseph Alderman 5	Wadesboro, N. C.
Ross, Joseph George, Jr. 1	Spring City, Pa.
Rosso, Leonidas, Jr. 7	Norfolk, Va.
Roth, Arnold I. 3	Birmingham, Ala.
Roush, Robert Ray 5	Alderson, W. Va.
Rowan, William Keenan 5	Des Moines, Iowa
Rowe, Alan L. 3 E	Waterbury, Vt.
Rowe, Herbert Graham 5	Alexandria, Va.
Rowland, William R. 5	Nesquehoning, Pa.
Roy, Harold E. 7	Bridgeport, Conn.
Rucker, Richard Carlton 1	Bristol, Tenn.
Rucks, Percy O. 5	Wilsons, Va.
Ruddy, Thomas Andrew 0	Asheville, N. C.
Rudisill, Jennings Bryan, Jr. 6	Charlotte, N. C.
Rudisill, John A., Jr. 5 E	Gibsonville, N. C.
Rudisill, Michael E. 7 E	Durham, N. C.
Ruffner, Van Natta, Jr. 6	Durham, N. C.
Runyan, Thorne Leslie 1	Norfolk, Va.
Rusack, John D. 3 E	Catskill, N. Y.
Rusinow, Dennison Ivan 1	St. Petersburg, Fla.
Russell, William Arthur 6	Marshall, Va.
Russell, William Harry 5	Rockingham, N. C.
Rutherford, John M., Jr. 1	Charleston, W. Va.
Rutherford, Robert Owen 1	White Plains, N. Y.
Rymer, Jackson Sanford 3 E	Durham, N. C.
Sager, Samuel Ott 7	Danville, Va.
Sager, Stanley Melvin 6	Washington, D. C.

- Saieed, Alfred Earl 1  
 Salazar, Mauro George 1  
 Sally, John L. 1  
 Sampley, Roy C., Jr. 7  
 Sandefur, Earl W. 5  
 Sanders, John William, III 7  
 Sands, Robert Norman 3  
 Sapp, Carl F. 7  
 Sarazen, John C. 1  
 Sasser, Louis L. 1  
 Satlof, Melvin G. Spec.  
 Satterthwaite, N. D. 5  
 Saunders, Stanley Stewart 7 E  
 Savitt, Herbert S. 1  
 Scafuro, Angelo Charles 7  
 Scalise, Vincent Joseph 1  
 Scarborough, David Knowles 5  
 Schacter, Jerry Miles 6  
 Schaefer, Norb F., Jr. 1  
 Schick, Philip Martin 5  
 Schiffli, Nicholas W. 4  
 Schmahl, Frank Devlin 8  
 Schmidt, Henry G., Jr. 5  
 Schoonmaker, A. Stuart 5  
 Schoonmaker, Fred Walter 1  
 Schrider, William T., Jr. 1  
 Schwarz, Fred Kipp 3  
 Schwarz, Robert James 3  
 Scioscia, Louis Thomas 7  
 Scisco, Robert W. 7 E  
 Scollen, Donald B. 3 E  
 Scott, John Baytop 1  
 Scott, Robert C. 3  
 Scott, Robert Walter 3  
 Scott, Samuel Gray 1  
 Scott, William Chadwick 1  
 Scott, William Edward 5 E  
 Seaton, Edwin Claude 4  
 Seay, Thomas W., Jr. 7  
 Seeley, Ralph Marion 1  
 Self, Joseph Morrison 1  
 Senter, Guy Wilton 6  
 Sessoms, Carlie B. 6  
 Settle, Edward Alfred 8  
 Setzer, Evan S., Jr. 5  
 Shackelford, Robert Glenn 3  
 Shaffer, John Taylor 8  
 Shain, Edwin 1  
 Shankle, Claude 6  
 Shapiro, Herbert Sanford 3  
 Sharpe, Albert McDavid 7  
 Sharpe, Edward R. 5  
 Sharpe, Keith Yount 1  
 Sharpe, Norman Thomas 5  
 Sharrett, Roger Carlton 5  
 Shaudys, Vincent K. 5  
 Shaw, James Harvey 3 E  
 Shaw, John D. 5  
 Shealy, George Leon, Jr. 7  
 Shelby, Wallace McDowell 3 E  
 Greenville, N. C.  
 Atlantic Beach, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Bristol, Va.  
 New York, N. Y.  
 Raleigh, N. C.  
 White Plains, N. Y.  
 Durham, N. C.  
 Montgomery, Ala.  
 Roanoke Rapids, N. C.  
 High Point, N. C.  
 Ansonia, Conn.  
 Allendale, N. J.  
 Geneva, N. Y.  
 Philadelphia, Pa.  
 Brooklyn, N. Y.  
 Indianapolis, Ind.  
 Cos Cob, Conn.  
 Clewiston, Fla.  
 Chicago, Ill.  
 East Orange, N. J.  
 Walden, N. Y.  
 Lander, Wyo.  
 Silver Spring, Md.  
 Webster Groves, Mo.  
 Chatham, N. J.  
 Lansdowne, Pa.  
 Creedmoor, N. C.  
 Barnesboro, Pa.  
 Waugh, Ala.  
 Roanoke, Va.  
 Raleigh, N. C.  
 Kannapolis, N. C.  
 Petersburg, Va.  
 Woodhaven, N. Y.  
 Manitowoc, Wis.  
 Spencer, N. C.  
 Candor, N. Y.  
 Greensboro, N. C.  
 Raleigh, N. C.  
 Durham, N. C.  
 Garden City, N. Y.  
 Newton, N. C.  
 High Point, N. C.  
 Baltimore, Md.  
 Wilmington, N. C.  
 Albemarle, N. C.  
 Augusta, Ga.  
 Lumberton, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 West Palm Beach, Fla.  
 Durham, N. C.  
 Newtown, Pa.  
 Baltimore, Md.  
 Sistersville, W. Va.  
 South Orange, N. J.  
 Maplewood, N. J.

Shelley, George L., III	3	Bristol, Conn.
Shepherd, Douglas Nelson	6	Huntington, W. Va.
Shepherd, Robert Edward	7 E	Oak Ridge, Tenn.
Shepherd, Roy C., Jr.	8	Lexington, N. C.
Sheppard, Donald Lewis	0	Wilmington, Del.
Sherrill, Frank Carlyle	3	Cornelius, N. C.
Sherrill, John L.	5	Cornelius, N. C.
Sherrill, Tobias A.	3	Greensboro, N. C.
Shevick, Jerry Joseph, Jr.	7	Towson, Md.
Shield, J. D.	1	Maryville, Tenn.
Shirk, Wesley Horning, Jr.	3 E	Philadelphia, Pa.
Sholtz, Mitchell David	3 E	Asheville, N. C.
Shore, George Edward	3	Winston-Salem, N. C.
Short, Emmett Fulton	6	Shellman, Ga.
Short, Frederick William	7 E	High Point, N. C.
Short, Raymond J., Jr.	5	Orange, N. J.
Shuford, William Albert	3	Thomasville, N. C.
Shull, Joseph Roger	1	Bridgeport, Conn.
Shulsinger, Joseph	3	Springfield Gardens, N. Y.
Shumaker, Samuel Robert	1	Washington, D. C.
Shuster, Charles Willard	1	Glen Rock, N. J.
Sibley, Donald M.	5	San Francisco, Calif.
Siegfried, Francis Hammond	7 E	Melrose Park, Pa.
Siler, Clifton Eugene	1	Asheville, N. C.
Siler, Frank Gilmer	5 E	Tampa, Fla.
Silkett, Robert Tillson	3	Silver Springs, Md.
Silver, Donald	5	Asheville, N. C.
Simard, Harry Lawrence	7	Holyoke, Mass.
Simidian, Ara Vahan	3	Forest Hills, N. Y.
Simmons, Bowen Eugene	3	Opp, Ala.
Simmons, Roy Eugene	3	Pilot Mountain, N. C.
Simon, Harold	1	Trenton, N. J.
Simon, Robert Raymond	8 E	Westbury, N. Y.
Simon, Willie Lee	7	New Hill, N. C.
Simpson, George D.	7 E	Rockford, Ill.
Simpson, James Walter	5	Charlotte, N. C.
Simpson, Lawrence R.	7	Durham, N. C.
Simpson, Norman Emmett	5	Hinton, W. Va.
Simpson, Robert Truesdale	1	Rock Hill, S. C.
Simpson, Ronald Vincent	1	Bridgeport, Conn.
Sink, Carl Jackson	7	Winston-Salem, N. C.
Singletary, Oliver Donald	2	Scranton, S. C.
Sires, LeRoy A., Jr.	5	Charleston, S. C.
Sirois, Richard Albert	3	Portland, Me.
Siskind, Barry Ellis	3	Brooklyn, N. Y.
Sisson, John Paddock	5	Pensacola, Fla.
Skibsted, Wesley George	4	Miami, Fla.
Skipworth, George Brook	Spec.	Columbus, Ga.
Slane, John Clark	3	High Point, N. C.
Slaney, James Dale	5	York, Pa.
Slaughter, Charles Kyle	1	Daytona Beach, Fla.
Sledge, John Burton, Jr.	3	Rich Square, N. C.
Sliker, Alan William	3	Newton, Mass.
Sloan, Randle Carroll	7 E	Durham, N. C.
Slone, Harry Lee	3	Roanoke, Va.
Small, Robert Rocoe	4	Morganton, N. C.
Smallback, William C.	7	Oakfield, N. Y.
Smalling, Sam Gregg	1	Bristol, Tenn.
Smeak, Carroll David	1	Hanover, Pa.
Smith, Allen	7	Boston, Mass.

- Smith, Alton B. 5  
 Smith, Arthur George, Jr. 11  
 Smith, Charles William 7  
 Smith, Clifford Forrest 1  
 Smith, Edward Byron 3 E  
 Smith, Edwin James 5 E  
 Smith, Frank C. 5  
 Smith, Fred R. 3  
 Smith, Gilbert Heaton 1  
 Smith, Harry Hutchinson 1  
 Smith, James H. 5  
 Smith, John Newton, Jr. 4  
 Smith, Joseph Colbert 7  
 Smith, Lee Amon 5  
 Smith, Lee C. 5  
 Smith, Melbourne LeRoy 5  
 Smith, Micah J. 3  
 Smith, Richard Bowden 3  
 Smith, Richard M. 3  
 Smith, Richard S. 5  
 Smith, Robert E. 6  
 Smith, Sherwood D. 5  
 Smith, Sterling Lee 3  
 Smith, William Burford 5  
 Smith, William Dudley 5  
 Smith, William Lawrence, Jr. 1  
 Smith, William M. Spec. 3  
 Smith, William Monroe 3  
 Smith, William James 8  
 Smith, Yandell Roberts 8  
 Smitherman, Frank Byron 3  
 Smullen, John James, Jr. 1  
 Smyre, Melford Alton 3  
 Snively, Lawrence W., Jr. 3  
 Snow, John Wesley 3  
 Snyder, Harry M. 1  
 Snyder, Robert C. 1  
 Solomon, James Russell 3  
 Sorrell, Quinton Lee 5 E  
 Sorrell, William Richard 1  
 Souchak, Michael 3  
 Southern, J. Albert 5  
 Sovick, George Penn 1  
 Spach, Madison Stockton 5  
 Spangler, Ronald Tice 1  
 Spann, Guy Stewart 3  
 Spearman, James Henry 6  
 Spears, Charles Stephens 1  
 Speas, Irvin Gorrell 7 E  
 Speight, Robert Spurgeon 1  
 Speir, David Ordway 9  
 Spence, Talmage T. 7  
 Spillman, Harry Lawrence 3  
 Spiropulos, Spiro 3  
 Sprinkle, Benjamin F. 5  
 Stallings, Tolbert Lacy, Jr. 5  
 Stanback, Fred J. 5  
 Stanley, Larimer Vaughan 8  
 Stark, Robert Lee 7  
 Stark, Thomas Hall 5  
 Raleigh, N. C.  
 Binghamton, N. Y.  
 Fort Jackson, S. C.  
 Pinehurst, N. C.  
 Haddonfield, N. J.  
 Durham, N. C.  
 Charlotte, N. C.  
 Lynn, Mass.  
 Dayton, Ohio  
 Baltimore, Md.  
 Mt. Airy, N. C.  
 Wilmington, N. C.  
 Charlotte, N. C.  
 Norfolk, Va.  
 Raleigh, N. C.  
 Hamlet, N. C.  
 Clover, S. C.  
 Durham, N. C.  
 Poughkeepsie, N. Y.  
 Pinehurst, N. C.  
 Monroe, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Tampa, Fla.  
 Martinsville, Va.  
 Durham, N. C.  
 Charlotte, N. C.  
 Lenoir, N. C.  
 Augusta, Ga.  
 Louisville, Ky.  
 Winston-Salem, N. C.  
 Salisbury, Md.  
 Creedmoor, N. C.  
 Ben Avon, Pa.  
 Gainesville, Fla.  
 Hickory, N. C.  
 Winston-Salem, N. C.  
 Ft. Wayne, Ind.  
 Durham, N. C.  
 Dunn, N. C.  
 Berwick, Pa.  
 Stokesdale, N. C.  
 Charleston, W. Va.  
 Winston-Salem, N. C.  
 Ft. Lauderdale, Fla.  
 Plant City, Fla.  
 Charlotte, N. C.  
 Paris, Ky.  
 Winston-Salem, N. C.  
 Elm City, N. C.  
 Tampa, Fla.  
 Raleigh, N. C.  
 Charlotte, N. C.  
 Jamaica, N. Y.  
 Lenoir, N. C.  
 Somerville, N. J.  
 Salisbury, N. C.  
 Galax, Va.  
 Clarksburg, W. Va.  
 Huntington, W. Va.

Starkey, Bernard 2  
 Starks, Garvin T. 6 E  
 Starks, Norman Ralph 8 E  
 Starnes, Dale S. 7  
 Starnes, Paul Boger 4  
 Starnes, Phillip J. 4  
 Stauts, Lester John, Jr. 1  
 St. Clair, Charles Wade 1  
 Steadman, Robert Harry 5 E  
 Steagall, Robert Worth 3  
 Steel, John Schultz 5  
 Steele, James G. 6  
 Steiner, Kenneth J. 5 E  
 Stentz, Donald Alan 7 E  
 Stephanz, Paul William 5  
 Sterling, Lehman Newell 3  
 Stevens, Thomas Norris, Jr. 1  
 Stevenson, John Kerman 0  
 Stever, Arthur Henry 3  
 Stevlingson, Wheldon Fletcher 3 E  
 Stewart, Alva T., Jr. 7  
 Stewart, Harold Eugene 3  
 Stewart, Harvey Hester, Jr. 5 E  
 Stewart, Hunter Baldwin 0  
 Stewart, Jack A. 8  
 Stewart, Robert Ray 8  
 Stewman, John Alexander, III 5  
 Stickel, Delford LeFew 7  
 Stillwell, Edgar E. 3  
 Stillwell, H. Daniel 1  
 Stipe, Robert Edwin 5  
 Stockdale, Dalph Wayne 1  
 Stockslager, Arthur James 5 E  
 Stockton, Manley S. 7  
 Stokes, Frank Stewart, Jr. 3  
 Stone, Albert Leppo 5 E  
 Stone, George Rollins 5 E  
 Stone, Hugh Lloyd, Jr. 7 E  
 Stone, John William 2  
 Stone, Paul R., Jr. 3  
 Stork, Carl Alexander 6  
 Story, Harry A. 3 E  
 Stottlar, James Francis 1  
 Stottlemeyer, Paul Clinton 7 E  
 Stowers, Stewart Frank 5  
 Stradley, Walter McNutt 1  
 Strandberg, Charles F. 5 E  
 Strasser, Richard I. 4  
 Stratton, John Thomas 5  
 Strauch, C. Richard 5  
 Strauss, Saul 1  
 Street, John Scott 3  
 Stribling, Charles S. 2 E  
 Stride, Richard Joseph 3  
 Strider, Robert L. 5  
 Stringer, Arthur John, Jr. 3  
 Strother, Paul Nelson, Jr. 9  
 Strott, John William 3  
 Stull, Clark D. 1  
 Stvan, Edward B. 6

Quinton, Va.  
 Durham, N. C.  
 Tampa, Fla.  
 Granite Falls, N. C.  
 Charlotte, N. C.  
 Charlotte, N. C.  
 Sharon Hill, Pa.  
 Welch, W. Va.  
 Swampscott, Mass.  
 Charlotté, N. C.  
 Teaneck, N. J.  
 Chillicothe, Ohio  
 Jeannette, Pa.  
 Durham, N. C.  
 Jacksonville, Fla.  
 Newtown Square, Pa.  
 Savannah, Ga.  
 Durham, N. C.  
 Miami, Fla.  
 Austin, Texas  
 Keystone, W. Va.  
 Otto, N. C.  
 Charlotte, N. C.  
 Durham, N. C.  
 Jacksonville, Fla.  
 Ironton, Ohio  
 Charlotte, N. C.  
 Martinsburg, W. Va.  
 Staten Island, N. Y.  
 Staten Island, N. Y.  
 Easton, Pa.  
 Rockford, Ill.  
 Westfield, N. J.  
 Atlanta, Ga.  
 Portsmouth, Va.  
 Winter Haven, Fla.  
 Mt. Pocono, Pa.  
 Raleigh, N. C.  
 Raleigh, N. C.  
 Martinsville, Va.  
 Philadelphia, Pa.  
 Lakewood, Ohio  
 Peekskill, N. Y.  
 Hagerstown, Md.  
 Bluefield, W. Va.  
 Excelsior, W. Va.  
 Greensboro, N. C.  
 New York, N. Y.  
 Atlanta, Ga.  
 Benton, Pa.  
 Brooklyn, N. Y.  
 Chillicothe, Ohio  
 Durham, N. C.  
 Saco, Me.  
 Fayetteville, N. C.  
 Mountain Lakes, N. J.  
 Stantonburg, N. C.  
 Baltimore, Md.  
 Ridley Park, Pa.  
 Bay Village, Ohio



- Suddard, Neal Arnold 8  
 Sugarman, Alan C. 7  
 Sugg, Robert Whittington 5  
 Sullivan, Edward James 3  
 Sullivan, James Howell 1  
 Sullivan, John Louis, Jr. 5  
 Sumara, Charles K. George 2  
 Summers, James Arey 8  
 Summers, Joseph Vincent 7  
 Sutphin, Arthur T. 5 E  
 Suttle, Michael, Jr. 4  
 Sutton, Loyd Erskine 4  
 Sutton, Quincy J. 5  
 Swain, Thomas Ryan 2  
 Swain, William Alexander 4  
 Swalchick, George, Jr. 8  
 Swann, Thomas Burnett 5  
 Swanson, Edward N. 1  
 Sweeney, John R. 7  
 Swerlick, Robert 5  
 Swofford, Thomas Hoyle, Jr. 1  
 Sykes, John Howard 3  
 Sylvester, Michael 4  
 Tager, Henry Clay 3  
 Tager, Milton Lee 5 E  
 Tagert, Russell Hayes, Jr. 1  
 Tamillo, Joseph Richard 0  
 Tamis, Robert Howard 1  
 Tanaka, Shin 5  
 Tanc, Charles Beecher 5  
 Tapley, John Mark 3  
 Tarter, James W. 7  
 Tatom, Louis 5  
 Taylor, Alex Wright 1  
 Taylor, Creed Bane, Jr. 3  
 Taylor, Edd W. 7  
 Taylor, James Charles 1  
 Taylor, Joseph Wilson 5 E  
 Taylor, Julian Ray 1  
 Taylor, Robert C. 8  
 Taylor, Robert R. Spec.  
 Taylor, Walter Herman, Jr. 1  
 Taylor, William James 8  
 Taylor, William Warren 5  
 Tedder, Frank 3 E  
 Tepe, Louis Charles 1  
 Ternosky, Carl 4  
 Terpenning, George C. 2  
 Terrell, Robert Lewis 1  
 Terry, Isaac Holt, Jr. 4  
 Thacker, Frank Arrington 7  
 Thiel, Goodrich A. 5  
 Thigpen, Richard Elton, Jr. 3  
 Thomas, Bernard Hylton 8  
 Thomas, Pendleton Jones 6  
 Thomas, Richard Frank, Jr. 1  
 Thomas, Richard Lincoln 4  
 Thomas, Robert Charles 3  
 Thomas, Royce Phelps 1  
 Thomas, Theodore Hubert 1  
 Newark, Del.  
 Asbury Park, N. J.  
 Durham, N. C.  
 Riverside, N. J.  
 Columbus, Ga.  
 Macon, Ga.  
 Williamston, N. C.  
 Salisbury, N. C.  
 Ardmore, Pa.  
 Princeton, N. J.  
 Newport News, Va.  
 Monroe, N. C.  
 Warsaw, N. C.  
 Newport News, Va.  
 Asheville, N. C.  
 Colyer, Pa.  
 Winter Haven, Fla.  
 Pilot Mountain, N. C.  
 Scarsdale, N. Y.  
 Philadelphia, Pa.  
 Greensboro, N. C.  
 Burlington, N. C.  
 Springfield, Pa.  
 Durham, N. C.  
 Greensboro, N. C.  
 Durham, N. C.  
 Duluth, Minn.  
 New York, N. Y.  
 Durham, N. C.  
 Bound Brook, N. J.  
 New Rochelle, N. Y.  
 Richlands, Va.  
 Monmouth, N. J.  
 Stantonburg, N. C.  
 White Gate, Va.  
 Orlando, Fla.  
 Washington, D. C.  
 Deep Gap, N. C.  
 Durham, N. C.  
 New Orleans, La.  
 Arlington, N. J.  
 Pelzer, S. C.  
 Warsaw, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Ridgefield, N. J.  
 Berwick, Pa.  
 New Rochelle, N. Y.  
 E. Quoque, N. Y.  
 Bahama, N. C.  
 St. Louis, Mo.  
 Greensboro, N. C.  
 Charlotte, N. C.  
 Leaksville, N. C.  
 Savannah, Ga.  
 Winston-Salem, N. C.  
 Wallingford, Conn.  
 Little Neck, N. Y.  
 Jacksonville, Fla.  
 Nelsonville, Ohio

Thompson, Blaine Calvin	4	Cleveland Heights, Ohio
Thompson, Edwin Spencer	5	Durham, N. C.
Thompson, Elwood Reynolds	7 E	Wilmington, Del.
Thompson, Harold B.	6	Hallsboro, N. C.
Thompson, Joseph Walter	8	Charleston, W. Va.
Thompson, Oscar M.	7 E	Rockingham, N. C.
Thompson, Robert Leon, Jr.	1	Anderson, S. C.
Throckmorton, Charles W., III	3	Richmond, Va.
Throneburg, James Curry	7	Kings Mountain, N. C.
Tickle, Dewey Reid	3	Burlington, N. C.
Ticktin, Boyd L.	7 E	Durham, N. C.
Tillinghast, Arthur	7 E	Indian Rocks, Fla.
Timothy, J. T.	6	Birmingham, Ala.
Tingen, Clarence Aubrey	4	Durham, N. C.
Tippy, Harold Glenn	3	Mt. Lakes, N. J.
Tissot, Robert H.	7	New Rochelle, N. Y.
Todd, John Isaac	1	Jacksonville, Fla.
Tomlinson, Charles John	1	Malverne, N. Y.
Tomlinson, Russell C.	7 E	Bloomfield, N. J.
Toms, Edgar Shelton, Jr.	3	Durham, N. C.
Toms, George Newby	3	Durham, N. C.
Tooker, John T.	6	New York, N. Y.
Torgerson, Torger Edward	7 E	Duluth, Minn.
Touchstone, John N., Jr.	1	Dallas, Texas
Townsend, Donald H.	3 E	Wynnewood, Pa.
Townsend, James J.	3	Jacksonville, Fla.
Trainer, John Carlton, Jr.	7	Collingswood, N. J.
Tranter, Ben G., Jr.	1	Franklin, Ind.
Traub, Henry Willis	5	Auburn, N. Y.
Treat, Charles William	3 E	Port Huron, Mich.
Treleaven, Phillips Albert	5	Oak Park, Ill.
Trenkmann, Edward	6	Larchmont, N. Y.
Tribble, Willie Mack, Jr.	5	Forsyth, Ga.
Trigg, William G.	7	St. Petersburg, Fla.
Trippel, Gerald E.	5 E	Forest Hills, N. Y.
Tronolone, Nick, Jr.	3 E	Palisade, N. J.
Tropman, John R.	5	Durham, N. C.
Trusk, George	5 E	Chicago, Ill.
Tsangaris, Neofytos T.	1	Tarpon Springs, Fla.
Tubbs, David L.	5 E	Charleston, W. Va.
Tucker, Donald Wood	3	Goldsboro, N. C.
Tucker, Perry Alan	1	Wadesboro, N. C.
Tulenko, Thomas Steve	3	Washington, D. C.
Tully, William Franklin	3	Charleston, W. Va.
Turbidy, John B.	5	Rome, Ga.
Turner, Harlan R., Jr.	7 E	Atlanta, Ga.
Turpin, David Howard	7	Bedford, Va.
Tutan, Charles B., Jr.	5	Miami, Fla.
Tuthill, David Foster	1	Pittsburgh, Pa.
Tuttle, William Brock	5	Charlotte, N. C.
Tybout, Frederick Alton	3	Tampa, Fla.
Tyler, Franklin Adair, Jr.	1	Richmond, Va.
Tymosko, Donald Michael	1	Seymour, Conn.
Tyson, Edwin Louis	7	Greenville, N. C.
Tyson, George H.	3	Carrboro, N. C.
Tyson, Joseph Blake	5	Charlotte, N. C.
Tyson, Tommy	5	Durham, N. C.
Underwood, George D.	3	Holland, Va.
Underwood, Jack Lawrence	3	Albany, N. Y.
Underwood, John Thomas	5 E	Durham, N. C.

- Upchurch, Joseph Daniel 4  
 Upchurch, Roger S. 6  
 Upchurch, Thomas C. 7  
 Urban, James A. 6  
 Van Alstyne, James Linton 1  
 Van Buren, Wesley Cyde 3 E  
 Van Camp, David 1  
 Van Camp, George David 7  
 Van Camp, Stephen 2  
 Van Der Beck, Karl 3  
 Vandernoot, Theodore J. 3  
 Van Dyck, Robert Laird 3 E  
 Van Fossen, Richard W. 7  
 Van Horn, William Lewis 1  
 Van Skike, Robert Bruce 3  
 Van Steenburgh, Richard P. 7  
 VanZandt, Thomas Edward 5  
 Varellan, Chris Arist 0  
 Vasquez, Hector 7  
 Vaughan, Joseph Lynwood 1  
 Vaughan, William Earl 1  
 Vaughan, William Norman 5  
 Vaughn, Howard Amole 1  
 Veith, Frank Herman 3  
 Verner, John Victor, Jr. 6  
 Verran, Harry E. 1  
 Viau, Louis John, Jr. 3  
 Viggiano, Dante 3  
 Vilas, John M. 1  
 Vollmer, Donald M. 6  
 Wade, Henry O. 9  
 Waggoner, Oren Thomas 5  
 Wagner, Andrew John 3 E  
 Wagner, Robert Charles 1  
 Wagner, Robert William 5  
 Wagoner, George Richard 3  
 Walker, Emanuel Jaynes 3  
 Walker, Fred M., Jr. 8  
 Walker, Paul C. 5  
 Walker, Robert Johnstone 1  
 Walker, William B. 7  
 Wall, Arthur J., Jr. 9  
 Wall, Richard David 5 E  
 Wallingford, Thomas Ralph 5  
 Walrond, Alan Lambert 3  
 Waltman, Ray Hugh 5 E  
 Walton, Loring B. 7  
 Wamsley, Frank Singleton 3  
 Wamsley, Jack Lewis 1  
 Waner, Paul Glee, Jr. 3 E  
 Wanzer, Sidney Hovey 3  
 Ward, James W. 5  
 Ward, John A. 6  
 Ward, William Milton 1  
 Ward, William Robert 5  
 Ware, Henry Neill 3  
 Ware, James G. 5  
 Warlick, William Lee 6  
 Warmath, John Thomas 3  
 Warnick, Edward E. 5 E  
 Angier, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Miami, Fla.  
 Irvington-on-Hudson, N. Y.  
 Durham, N. C.  
 Pittsburgh, Pa.  
 Southern Pines, N. C.  
 Southern Pines, N. C.  
 East Orange, N. J.  
 Brooklyn, N. Y.  
 Petersburg, Va.  
 Washington, D. C.  
 Uniontown, Pa.  
 Bradenton, Fla.  
 Buffalo, N. Y.  
 Miami, Fla.  
 Baltimore, Md.  
 New York, N. Y.  
 Durham, N. C.  
 Hartford, Ky.  
 Wilson, N. C.  
 High Point, N. C.  
 Philadelphia, Pa.  
 Danville, Va.  
 Middlesboro, Ky.  
 New Orleans, La.  
 Panama, Rep. of Panama  
 Tenafly, N. J.  
 Pittsburgh, Pa.  
 Morehead City, N. C.  
 Charlotte, N. C.  
 Baltimore, Md.  
 Irvington, N. J.  
 Beaufort, S. C.  
 Durham, N. C.  
 Oriental, N. C.  
 Atlanta, Ga.  
 Winston-Salem, N. C.  
 Brooklyn, N. C.  
 Bridgeport, Conn.  
 Honesdale, Pa.  
 Baltimore, Md.  
 Maysville, Ky.  
 Hollins, Va.  
 Charlotte, N. C.  
 Durham, N. C.  
 Tulsa, Okla.  
 Tulsa, Okla.  
 Sarasota, Fla.  
 Charlotte, N. C.  
 Fayetteville, Tenn.  
 Walkertown, N. C.  
 Bristol, Tenn.  
 Lakeland, Fla.  
 Falls Church, Va.  
 Asheville, N. C.  
 Newton, N. C.  
 Greensboro, N. C.  
 Rochester, N. Y.

Warren, Harold Flack 2  
 Warren, Julian M. 7 E  
 Warta, Clarence E. 7  
 Wastler, T. Allen 5  
 Watkins, Charles Eugene, Jr. 1  
 Watkins, John K., Jr. 3 E  
 Watson, David Earl 1  
 Watson, John Eugene, Jr. 7 E  
 Watson, Penn Thomas, Jr. 5  
 Watts, John S., Jr. 7 E  
 Watts, William Logan 4  
 Waugh, John B. 6  
 Way, Charles Burr 5  
 Weaver, Lucius Stacy, Jr. 3  
 Webb, Edwin H. 5  
 Webb, Frank Maury 1  
 Webb, Richard Davis 3  
 Weber, Wheeler Davis 3 E  
 Webster, Frank Morris 3  
 Webster, John Neil 1  
 Webster, Richard Carlton 3  
 Webster, William Frank 6  
 Weekley, A. S., Jr. 3  
 Weidlich, William R. 1  
 Weidman, Frank Cross 1  
 Weidman, John C. 3  
 Weimann, Robert Bruce 1  
 Weinberg, Carroll A. 8  
 Weiss, James Owen 1  
 Welch, Frederick Parker 5  
 Welch, George H., Jr. 8  
 Welch, Gordon Kennedy 5  
 Weldon, Robert Walter 1  
 Wells, Allison Deans 1  
 Wells, Joseph F. 7 E  
 Wells, William Eston, Jr. 9  
 Welsh, John F. 3  
 Werk, George B. 8  
 Wesley, James Arden 3  
 Weststrom, William Wallace 1  
 West, Raymond T. 7 E  
 Westervelt, Sheldon 1  
 Westhall, James Edmund 5  
 Westlin, William F. 5  
 Westmoreland, William V., Jr. 3 E  
 Wetmore, William Stratton 1  
 Whalen, Walter F. 8  
 Whanger, Alan Duane 1  
 Wheaton, Scott Rodgers 3  
 Whetstone, Walter 3  
 Whitaker, O'Kelley 6  
 Whitaker, Richard Young 7  
 White, Arthur R., Jr. 5 E  
 White, Edgar Farrell 2  
 White, Frank P. 4  
 White, John Edward 3 E  
 White, John Mercer, Jr. 8  
 White, Johnnie Robert, III 3  
 White, Raymond Herbert, Jr. 3 E  
 White, Robert Arlen 3

Merchantville, N. J.  
 Spring Hope, N. C.  
 Lindenhurst, N. Y.  
 Pensacola, Fla.  
 Draper, N. C.  
 Durham, N. C.  
 Okmulgee, Okla.  
 Mullins, S. C.  
 Wilson, N. C.  
 Ivanhoe, Va.  
 Louisville, Ky.  
 Galax, Va.  
 Waynesville, N. C.  
 Durham, N. C.  
 Roanoke Rapids, N. C.  
 Lake Wales, Fla.  
 Mamaroneck, N. Y.  
 Cumberland, Md.  
 Durham, N. C.  
 Statesville, N. C.  
 Rochester, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 N. Plainfield, N. J.  
 Winchester, Mass  
 Winchester, Mass  
 Haddon Heights, N. J.  
 Baltimore, Md.  
 Memphis, Tenn.  
 Madison, N. Y.  
 Anderson, S. C.  
 Coral Gables, Fla.  
 Meriden, Conn.  
 Wilton, N. C.  
 Havertown, Pa.  
 St. Petersburg, Fla.  
 Valdosta, Ga.  
 Miami Beach, Fla.  
 Indianapolis, Ind.  
 Port Washington, N. Y.  
 Durham, N. C.  
 Oradell, N. J.  
 Lakewood, N. J.  
 Stratford, Conn.  
 Goldsboro, N. C.  
 New Rochelle, N. Y.  
 Philadelphia, Pa.  
 Cleveland, Ohio  
 Stroudsburg, Pa.  
 Wayne, Pa.  
 Durham, N. C.  
 Ocilla, Ga.  
 Richmond, Va.  
 Concord, N. C.  
 Unadilla, N. Y.  
 Covington, Ky.  
 Richmond, Va.  
 Danville, Va.  
 White Plains, N. Y.  
 Baltimore, Md.

- White, Robert Carlton 6  
 White, William F. 3  
 Whitener, Fred William 8  
 Whitescarver, James Field, Jr. 1  
 Whitley, Clyde Thomas 1  
 Whitney, James Lloyd 3  
 Wicker, Max William 7  
 Widner, Ralph Randolph 1  
 Wiita, Robert Matthew 1  
 Wilcox, Charles Hamilton 5  
 Wild, Glenn Amos 1  
 Wilder, Buna Joe 3  
 Wile, Homer Wayne 3  
 Wiles, Bennie M. 3  
 Wilkerson, Albert 5  
 Wilkerson, Ralph R. 2  
 Wilkin, Robert C. 2  
 Wilks, Seymour Ivan 0  
 Willeford, Brice J., Jr. 6  
 Williams, Bill Rowney 5 E  
 Williams, Charles Ayres 1  
 Williams, Charles Judson 1  
 Williams, Darrell Brown 5  
 Williams, Earl LeRoy 1  
 Williams, Earlwood Robbins 7 E  
 Williams, Jean B., Jr. 5  
 Williams, John Charles 1  
 Williams, John Wesley 1  
 Williams, Kenneth Trotter 9  
 Williams, Martin George, Jr. 2  
 Williams, Webster D. 6  
 Williamson, Cecil Floyd 5 E  
 Williamson, Lamont Wells 3  
 Williamson, Max L. 5 E  
 Wills, Bruce Baxter, Jr. 1  
 Wilmer, William Blackiston 3 E  
 Wilson, Charles Howe 2  
 Wilson, Dwight Remington, Jr. 1  
 Wilson, Hubert Leroy, Jr. 5 E  
 Wilson, James Robert, Jr. 6  
 Wilson, Plato S. 5  
 Wilson, Robert L. 7  
 Wilson, Walter Grier 7 E  
 Windom, Robert Emerson 1  
 Winkler, Hubert Erwin 3 E  
 Winn, Richard Morrow, Jr. 5  
 Winter, William O. 5  
 Wise, John Southey 7 E  
 Withers, Christopher 1  
 Withers, Donald Erwin 7  
 Withers, W. Kenney 3  
 Witherspoon, Loy Hahn 3  
 Withrow, Pat Berry, III 3  
 Witter, Robert LaMotte 1  
 Wittman, John Kenneth 3  
 Wolfe, Thomas Redwine 3  
 Wolff, Robert Alpha 1  
 Wolmering, Robert John 2 E  
 Womack, William Graham 6  
 Womble, William L. 3
- Greensboro, N. C.  
 Merritt Island, Fla.  
 Shelby, N. C.  
 Baltimore, Md.  
 Siler City, N. C.  
 Parkersburg, W. Va.  
 Aberdeen, N. C.  
 Camp Lejeune, N. C.  
 Monessen, Pa.  
 Atlanta, Ga.  
 Pittsburgh, Pa.  
 Gainesville, Fla.  
 Petrolia, Pa.  
 Burlington, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Steubenville, Ohio  
 Newport News, Va.  
 Kannapolis, N. C.  
 Charlotte, N. C.  
 New Haven, Conn.  
 San Mateo, Calif.  
 Faith, N. C.  
 Jacksonville, Fla.  
 Norfolk, Va.  
 Hendersonville, N. C.  
 Raleigh, N. C.  
 Flint, Mich.  
 Charlotte, N. C.  
 Jacksonville Beach, Fla.  
 Durham, N. C.  
 Cerro Gordo, N. C.  
 Rocky Mount, N. C.  
 Creston, Iowa  
 Erwin, Tenn.  
 Baltimore, Md.  
 Rochester, N. Y.  
 Mt. Vernon, N. Y.  
 Durham, N. C.  
 Greenville, S. C.  
 Morganton, N. C.  
 Maplewood, N. J.  
 Charlotte, N. C.  
 St. Petersburg, Fla.  
 Lenoir, N. C.  
 Clarksville, Tenn.  
 Winterville, Ga.  
 Newport News, Va.  
 Port Washington, N. Y.  
 Fairmont, W. Va.  
 Jacksonville, Fla.  
 Winston-Salem, N. C.  
 Charleston, W. Va.  
 Catonsville, Md.  
 Oradell, N. J.  
 Albemarle, N. C.  
 Great Neck, N. Y.  
 Dunkirk, N. Y.  
 Sanford, N. C.  
 Winter Haven, Fla.



Wood, Roy Stanley 1	Jacksonville, Fla.
Wood, Thomas E. 5 E	Durham, N. C.
Wood, Whitehill Thompson 1	Annapolis, Md.
Wood, William Clark 3	Greenwich, Conn.
Wood, William M. 3	Jacksonville, Fla.
Woodfield, Roland L. 3 E	Washington, D. C.
Woodworth, John Kennedy 3	Erwin, N. C.
Woolard, Jodie D., Jr. 7	Williamston, N. C.
Woolard, Jordan Marion 5	Richmond, Va.
Wooten, Elmer M. 5	Hookerton, N. C.
Wooten, Shade Isler 5	Asheville, N. C.
Worsham, Julius Berry, Jr. 5	Ruffin, N. C.
Worthey, Eugene Barton 1	San Francisco, Calif.
Wright, Harry Buford 7	Durham, N. C.
Wright, Robert Toombs 5 E	Chattanooga, Tenn.
Wright, William Ellison 1	Little Rock, Ark.
Wuchte, John Irving 5 E	Philadelphia, Pa.
Wynn, Robert S. 5	Ruston, La.
Xanthos, Andrew D. 2	Wilmington, N. C.
Yarnell, Richard Asa 3	Charleston, S. C.
Yates, James Jefferson 5	Durham, N. C.
Yeates, Clarence Owen 1	Norfolk, Va.
Yergey, David Arthur 1	Orlando, Fla.
Yevich, Eugene E. 4	Berwick, Pa.
Yongue, Robert E., III 5	Laurinburg, N. C.
York, Scott R. 3	Cleveland, Ohio
Yorke, Douglas Arthur 7	Scarsdale, N. Y.
Youmans, Corren P. 5 E	Miami, Fla.
Young, Alvin Martin 1	Trenton, N. J.
Young, Charles Denman 3	Charlotte, N. C.
Young, H. Claude 1	Charlotte, N. C.
Young, James M. 3	Massillon, Ohio
Young, Linville F. 6	Charlotte, N. C.
Young, Loren D. 8	Logan, W. Va.
Young, Robert Everett 3	Charleston, W. Va.
Younger, Kenneth G. 7	Tampa, Fla.
Yourison, James E. 3 E	Wilkinsburg, Pa.
Yudell, Robert B. 5	New Bern, N. C.
Zahner, Robert 5	Highlands, N. C.
Zavertnik, Otis Vernon 1	Englewood, N. J.
Zelter, A. Richard, Jr. 1	New York, N. Y.
Ziolkowski, Theodore Joseph 1	Montevallo, Ala.
Zimmerman, James Lawrence 1	Durham, N. C.

## THE WOMAN'S COLLEGE

## FRESHMAN CLASS

Anderson, Nancy	Elmhurst, Ill.
Andrews, Jane Raine	Graham, N. C.
Arrants, Betty Ross	Athens, Tenn.
Arthur, Marjorie Speer	Bridgeton, N. J.
Bagwell, Robina Norwood	Spartanburg, S. C.
Ballard, Kitty Anne	Owings Mills, Md.
Bartlett, Elizabeth Ann	Rockford, Ill.
Bauer, Louise Julianne	Newark, N. J.
Beachley, Jo Ann	Hagerstown, Md.
Berner, Carline	Clewiston, Fla.
Binnion, Betty Ann	Aruba, N. W. I.
Bixby, Mary Louise	Detroit, Mich.
Bogardus, Carolyn Jean	Pleasantville, N. Y.

- Bohlin, Carol  
 Bowen, Phoebe-May  
 Bowers, Betty Juanita  
 Bowers, Jean Hatley  
 Bowers, Mary Blair  
 Boyd, Ann Custis  
 Brantley, June Caroline  
 Brenneman, Beverly Ann  
 Brent, Catherine Hart  
 Bright, Barbara Jean  
 Bronaugh, Jeanne Hazel  
 Broome, Wilma Frances  
 Brown, Allie Mae Mercer  
 Brown, Marion Louise  
 Brown, Norma Marie  
 Bryant, Billie Barbara  
 Bryant, Helen Cantrell  
 Bryson, Elizabeth Dixon  
 Bullington, Kate Carroll  
 Burcham, Jean Arthur  
 Cannon, Jo Anne  
 Carr, Emily Catherine  
 Carter, Patricia Jean  
 Cassel, Nancy Anne  
 Castle, Constance Helene  
 Chamberlain, Carrie Stickney  
 Cherry, Julia Pamela  
 Chester, Carolyn Elizabeth  
 Christian, Mary Ann  
 Clark, Ruth Duvall  
 Cline, Barbara Anne  
 Cobb, Fay Ann  
 Coleman, Mary Elizabeth  
 Collinson, Ruth Eleanor  
 Constantine, Margaret Louise  
 Cook, Nancy Lane  
 Cool, Jeanette Adams  
 Courtney, Virginia Ann  
 Creech, Sara Ann  
 Crews, Ann  
 Crowe, Barbara Anne  
 Cunningham, Betty Ruth  
 Davidson, Barbara Lynette  
 Davies, Ann Katherine  
 Davis, Margaret Jan  
 Deimel, Carmelita Ruth  
 Depp, Beatrice Louise  
 Derby, Jean Leslie  
 Dieter, Carolyn May  
 Dixon, Alta Juanita  
 Dodson, Phylis Patricia  
 Draughon, Carol Lee  
 Duncan, Laura May  
 Early, Mary Laws  
 Eklund, Helen Mac  
 Ervin, Margaret Leslie  
 Faber, Sandra Suzanne  
 Fairley, Nancy Elizabeth  
 Farnham, Marjorie Arlene  
 Feinberg, Simmel Myra  
 Needham, Mass. \*  
 Daytona Beach, Fla.  
 Albemarle, N. C.  
 Albemarle, N. C.  
 Jackson, N. C.  
 Hilton Village, Va.  
 Salisbury, N. C.  
 McKeesport, Pa.  
 Washington, D. C.  
 Cumberland, Md.  
 Brooklyn, N. Y.  
 White Plains, N. C.  
 Durham, N. C.  
 Niagara Falls, N. Y.  
 Scranton, Pa.  
 Atlanta, Ga.  
 Winston-Salem, N. C.  
 Bryson City, N. C.  
 Houston, Texas  
 Durham, N. C.  
 Fort Bragg, N. C.  
 Richmond, Ky.  
 Gulfport, Miss.  
 Fair Lawn, N. J.  
 Hillsdale, Mich.  
 Greensboro, N. C.  
 Durham, N. C.  
 Southern Pines, N. C.  
 Durham, N. C.  
 Tarboro, N. C.  
 Norfolk, Va.  
 Park Ridge, Ill.  
 Winston-Salem, N. C.  
 Connellsville, Pa.  
 Racine, Wis.  
 Burlington, N. C.  
 Shaker Heights, Ohio  
 Lenoir, N. C.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Asheville, N. C.  
 Winston-Salem, N. C.  
 Columbus, Ga.  
 Huntington, W. Va.  
 Leaksville, N. C.  
 Washington, D. C.  
 Winston-Salem, N. C.  
 Rockland, Mass.  
 Durham, N. C.  
 Elm City, N. C.  
 Washington, D. C.  
 Clayton, Mo.  
 Decatur, Ga.  
 Jacksonville, Fla.  
 Philadelphia, Pa.  
 Raleigh, N. C.  
 Ft. Lauderdale, Fla.  
 Raleigh, N. C.  
 New Haven, Conn.  
 Miami Beach, Fla.

Flanders, Alice Margaret  
 Flanders, Mary Adelaide  
 Flickinger, Nancy Kathleen  
 Flowers, Sarah Frances  
 Fry, Sarah Joe Anne  
 Garber, Janet Winifred  
 George, Barbara Lou  
 Gerber, Sara Kathryn  
 Goode, Jane Ann  
 Greene, Joan S.  
 Guigou, Phyllis Lillian  
 Gulledge, Jane Bailey  
 Hall, Barbara Eloise  
 Hammond, Anne Phifer  
 Hance, Martha Wilmoth  
 Harris, Anna Weedon  
 Harris, Mary Elizabeth  
 Harris, Nancy Jean  
 Harris, Virginia Lee  
 Hartung, Holly Williams  
 Hatley, Betty Jo  
 Hedrick, Betty Jo  
 Heinke, Betty  
 Hickman, Elizabeth Cline  
 Hillen, Jill  
 Hollingsworth, Marianne  
 House, Anne Elizabeth  
 Huneycutt, Alberta Piner  
 Ingwersen, Joan  
 Jacobs, Elinor Louise  
 Jeffords, Helen  
 Johnson, Mary Shelagh  
 Jones, Barbara Louise  
 Kaminetzky, Beatrice Blanche  
 Keeling, Mary Jane  
 Kinney, Virginia Marie  
 Laubenheimer, Carol Jean  
 Lauer, Edith Anne  
 Law, Rosamund Hilbert  
 Leffler, May Martin  
 Lester, Patricia Lou  
 Lewis, Elizabeth Marie  
 Lobell, Marcia Joan  
 Long, Sara Dalton  
 Lord, Elizabeth Eugenie  
 Low, Janice Bruce  
 Lundberg, Ann Elizabeth  
 Lyon, Joyce Elaine  
 Lyon, Lucy Gay  
 Mader, Joan Maxine  
 Magee, Laurin Weeks  
 Margolis, Barbara Joan  
 Marsh, Mary Margaret  
 Mathews, Dorothy Dandridge  
 May, Louise Simpson  
 McAfee, Joyce Montgomery  
 McClure, Marie Price  
 McCullough, Doris Patton  
 McGee, Juanita Blaine  
 McKee, Janet Faye  
 Newark, N. J.  
 Weare, N. H.  
 South Bend, Ind.  
 Durham, N. C.  
 McKeesport, Pa.  
 Carlisle, Pa.  
 High Point, N. C.  
 Arlington, Va.  
 Lincolnton, N. C.  
 Coral Gables, Fla.  
 Valdese, N. C.  
 Albemarle, N. C.  
 Wollaston, Mass.  
 Charlotte, N. C.  
 Durham, N. C.  
 Elkin, N. C.  
 Winston-Salem, N. C.  
 Toledo, Ohio  
 Summit, N. J.  
 Norfolk, Va.  
 Albemarle, N. C.  
 High Point, N. C.  
 Miami, Fla.  
 Hudson, N. C.  
 Clayton, Mo.  
 Norfolk, Va.  
 Bethel, N. C.  
 Morehead City, N. C.  
 Middletown, Ohio  
 Longmeadow, Mass.  
 Florence, S. C.  
 Bogota, Colombia  
 Catonsville, Md.  
 Durham, N. C.  
 Portland, Ind.  
 Pittsburgh, Pa.  
 Huntington, N. Y.  
 Evansville, Ind.  
 South Charleston, W. Va.  
 Miami, Fla.  
 St. Petersburg, Fla.  
 Charlotte, N. C.  
 Myrtle Beach, Fla.  
 Winston-Salem, N. C.  
 Jacksonville, Fla.  
 Green Bay, Wis.  
 Birmingham, Mich.  
 St. Augustine, Fla.  
 Baltimore, Md.  
 Miami, Fla.  
 Ridgewood, N. J.  
 Williamston, N. C.  
 Swarthmore, Pa.  
 Asheville, N. C.  
 Burlington, N. C.  
 Macon, Ga.  
 Valley Stream, L. I., N. Y.  
 Durham, N. C.  
 Mt. Airy, N. C.  
 Kirkwood, Mo.

- McKerley, Rita Adele  
 McMullen, Sue Carol  
 Mendenhall, Olivia Anne  
 Mills, Carol Reading  
 Morey, Prudence  
 Morris, Laura Mead  
 Moser, Marilyn Beverly  
 Moulthrop, Suzanne Gardner  
 Murray, Barbara Muriel  
 Murray, Mary Jane  
 Myatt, Ruth **Arlene**  
 Nagel, Joanne Martha  
 Nicholson, Frances Staggs  
 Nielsen, Karen Gale  
 Nierman, Joyce Miriam  
 Noble, Barbara Ann  
 Nordwall, Sigrid Ann  
 O'Donovan, Patricia  
 Oliver, Joan Howard  
 Olsen, Betsey Jane  
 O'Neal, Margaret Wise  
 O'Quinn, Mary Ellen  
 Orr, Diane Theresa  
 Owens, Janice Clibourne  
 Parker, Grace Mildred  
 Peeler, Nancy Whitener  
 Pepper, Patricia  
 Petersen, Emily Jane  
 Pettit, Marjorie Ann  
 Phillip, Patricia Lee  
 Pickens, Mary Susan  
 Pike, Helen Packard  
 Pike, Mary Eloise  
 Pinnix, Joan Henry  
 Pool, Betsy Baucom  
 Poole, Evelyn Connelly  
 Powell, Grace Marie  
 Price, Ann Ximena  
 Purviance, Patricia Corrine  
 Quarek, Ursula Carola  
 Randolph, Elizabeth Ann  
 Reese, Joanne  
 Reid, Celia Minton  
 Reinhart, Janet Burnside  
 Reynolds, Anne Cannon  
 Rezzonico, Louise Kay  
 Richards, Kathryn Joan  
 Richardson, Margaret Catherine  
 Rivitz, Ila Suzanne  
 Roberson, Ethel Ann  
 Roberts, Joanne  
 Roberts, Patricia Catherine  
 Rodgers, Patricia Eileen  
 Rooker, Mary Alice  
 Rose, Patricia Ann  
 Routon, Betty  
 Runyan, Nancy Louise  
 Russell, Elizabeth Craig  
 Russell, Peggy Ann  
 Sattele, Mary Lou  
 Savannah, Ga.  
 Detroit, Mich.  
 Orlando, Fla.  
 East Orange, N. J.  
 Lexington, Mass.  
 Arlington, Va.  
 Baltimore, Md.  
 Eufaula, Ala.  
 Ridgewood, N. J.  
 Tampa, Fla.  
 Durham, N. C.  
 Brooklyn, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 Cincinnati, Ohio  
 Wynnwood, Pa.  
 Larchmont, N. Y.  
 Flushing, N. Y.  
 Wellesley Hills, Mass.  
 Norfolk, Va.  
 Macon, Ga.  
 Fort Pierce, Fla.  
 Asheville, N. C.  
 Greenville, N. C.  
 Madison, N. J.  
 Salisbury, N. C.  
 Washington, D. C.  
 Houston, Texas  
 Washington, D. C.  
 Port Washington, L. I., N. Y.  
 Raleigh, N. C.  
 Hobart, Ind.  
 Beaufort, S. C.  
 Gastonia, N. C.  
 Winston-Salem, N. C.  
 Bailey, N. C.  
 Augusta, Ga.  
 Lambertville, N. J.  
 New York, N. Y.  
 Port Washington, L. I., N. Y.  
 Toledo, Ohio  
 St. Petersburg, Fla.  
 St. Augustine, Fla.  
 Larchmont, N. Y.  
 Blowing Rock, N. C.  
 Charleston, W. Va.  
 Philadelphia, Pa.  
 Durham, N. C.  
 Newark, Ohio  
 DeLand, Fla.  
 Kenmore, N. Y.  
 Scarsdale, N. Y.  
 Cranford, N. J.  
 Warrenton, N. C.  
 Allentown, Pa.  
 Miami, Fla.  
 Washington, D. C.  
 Upper Montclair, N. J.  
 High Point, N. C.  
 Lorain, Ohio

Schettler, Elizabeth Anne  
 Schulz, Irene Marie  
 Seaman, Barbara Jane  
 Searcy, Vera June  
 Shaw, Sarah Priscilla  
 Shepherd, Emma Louise  
 Shore, Lelia Laura  
 Smiseth, Alberta Mali  
 Smith, Betsy Love  
 Smith, Bonnie Joyce  
 Smith, Frances Sue  
 Smith, Nancy Farrell  
 Smith, Shirley Mason  
 Snyder, Barbara Edith  
 Speas, Margaret Alspaugh  
 Spies, Marion Leola  
 Spikes, Camilla Watts  
 Spring, Katherine Ann  
 Stevens, Thelma Chloe  
 Stokes, Marilyn Verniez  
 Stone, May Sloan  
 Sullivan, Elizabeth Macken  
 Sutton, Sara Jean  
 Switzer, Marilyn Ann  
 Tatum, Anne Low  
 Taylor, Elinore Dannenburg  
 Taylor, Iola Hardy  
 Taylor, Thelma Ann  
 Thompson, Alicejean  
 Tiller, Lucy Carroll  
 Tracy, Marian Eleanor  
 Tuttle, DeLossie Dean  
 Vance, Evaline Irene  
 Wade, Charlotte Rowena  
 Wahl, Marjorie Ann  
 Waltz, Jane Carol  
 Watkins, Nancy Thomas  
 Webb, Patricia Ann  
 Weedon, Josephine Davis  
 Weidenhan, Marion Clare  
 West, Emily  
 Whims, Janet  
 Whitaker, Patricia Ann  
 White, Barbara Rex  
 Wiggins, Anne Baker  
 Wilkinson, Mary Ann  
 Williams, Nancy Carolyn  
 Wills, Ruth Vines  
 Wise, Marilee  
 Wise, Peggy Jeanne  
 Woodall, Adele Davis  
 Woodlief, Gwendolyn Duke  
 Woollen, Rebecca Meginley  
 Wooten, Patsy Jones  
 Wright, Mary Elizabeth  
 Yarin, Elaine Ruth  
 Yeager, Tessie Frances  
 Youmans, Alice Jean  
 Young, Isabelle Mary  
 Young, Katherine

Sweetwater, Tenn.  
 Winter Park, Fla.  
 Baldwin, L. I., N. Y.  
 Hendersonville, N. C.  
 High Point, N. C.  
 Elkins, W. Va.  
 Charlotte, N. C.  
 St. Petersburg, Fla.  
 Greensboro, N. C.  
 Durham, N. C.  
 Verona, N. J.  
 Louisville, Ky.  
 Albemarle, N. C.  
 Roslyn, L. I., N. Y.  
 Asheville, N. C.  
 Birmingham, Ala.  
 Burlington, N. C.  
 Gainesville, Ga.  
 Jacksonville, Fla.  
 Canton, N. Y.  
 Raleigh, N. C.  
 Macon, Ga.  
 Cullowhee, N. C.  
 Norwalk, Ohio  
 Salisbury, N. C.  
 Huntington, W. Va.  
 New Bern, N. C.  
 Maitland, W. Va.  
 Detroit, Mich.  
 Brunswick, Ga.  
 Osprey, Fla.  
 Greensburg, Pa.  
 Coral Gables, Fla.  
 Canton, Ohio  
 Thomasville, Ga.  
 West Orange, N. J.  
 Oxford, N. C.  
 Beaufort, N. C.  
 Jamestown, N. Y.  
 Baltimore, Md.  
 Ft. Lauderdale, Fla.  
 Berea, Ohio  
 Silver Spring, Md.  
 McKeesport, Pa.  
 Wilmette, Ill.  
 Birmingham, Mich.  
 Belleville, Ill.  
 Erwin, Tenn.  
 Bells, Tenn.  
 Montgomery, Ala.  
 Guntersville, Ala.  
 Durham, N. C.  
 Baltimore, Md.  
 Hookerton, N. C.  
 Durham, N. C.  
 Brooklyn, N. Y.  
 Jacksonville, Fla.  
 Miami, Fla.  
 Marietta, Pa.  
 Belle Glade, Fla.



Ziegler, Joan S.  
Zuckerman, Shirley Augusta

Philadelphia, Pa.  
Durham, N. C.

# SOPHOMORE CLASS

Akers, Mary Elizabeth  
Albert, Betty Lu  
Altick, Joan Muriel  
Anderson, Catherine Baxter  
Arendell, Julia Anne  
Arnold, Mary Louise  
Arrington, Elizabeth Ella  
Austin, Carol Lynn  
Awtrey, Margaret Anne  
Bailey, Mary Catherine  
Bailey, Phoebe Crane  
Baldwin, Sarah Karnes  
Ballentine, Margaret Ann  
Barker, Pansy Marie  
Barnett, Anna Lee  
Barnett, Jean  
Barringer, Norma Page  
Baxter, Doris Jane  
Beck, Caroline Adelaide  
Bell, Elizabeth Dunn  
Bell, Leslie Cast  
Best, Charlotte Marian  
Bieber, Elsie Ruth  
Bilogan, Rose Mary  
Blakeley, Jane Elizabeth  
Blatt, Leslie  
Boone, Emily Milton  
Boone, Rachael Suzanne  
Borden, Ethel  
Borden, Nancy Belle  
Bouton, Freda Lorraine  
Boyer, Barbara Jean  
Boyle, Lillian Gray  
Bradley, Mary Jeanne  
Branch, Mary Alice  
Bridgers, Anne Anderson  
Brock, Dorothy Anne  
Bronson, Anne Leake  
Brown, Anna Marie  
Brown, Enna Barbara  
Bruggeman, Sarah Amelia  
Buchanan, Anne  
Bullock, Ann Olivia  
Buttry, Marion Florence  
Butz, Mary Sarah  
Byrne, Sally  
Camm, Gertrude Elizabeth  
Casselberry, Ruth Ann  
Cekada, Althea Grey  
Chapman, Marion Frances  
Chappell, Grace Elizabeth  
Church, Alice Graham  
Cleaveland, Carol Lorraine  
Clemence, Joan Martha  
Clements, Mary Anne  
Coble, Barbara Lou

Bethesda, Md.  
Jacksonville, Fla.  
Philadelphia, Pa.  
Wilson, N. C.  
Raleigh, N. C.  
Quincy, Fla.  
Tavares, Fla.  
Chattanooga, Tenn.  
Atlanta, Ga.  
Troy, N. Y.  
Winchendon, Mass.  
Durham, N. C.  
Anderson, S. C.  
Durham, N. C.  
Logan, W. Va.  
Westfield, N. J.  
Durham, N. C.  
Ft. Leavenworth, Kan.  
Toledo, Ohio  
Upper Montclair, N. J.  
Scarsdale, N. Y.  
Quincy, Ill.  
Fleetwood, Pa.  
East Orange, N. J.  
Alliance, Ohio  
New York, N. Y.  
Memphis, Tenn.  
Penn's Grove, N. J.  
Concord, Mass.  
Philadelphia, Pa.  
Madison, N. J.  
Washington, D. C.  
Sanford, Fla.  
Kirkwood, Mo.  
Schenectady, N. Y.  
Wilson, N. C.  
Tuckahoe, N. Y.  
Greenwich, Conn.  
Hendersonville, N. C.  
Coral Gables, Fla.  
Dayton, Ohio  
Durham, N. C.  
Macon, N. C.  
Durham, N. C.  
Jacksonville, Fla.  
Pewee Valley, Ky.  
Osborn, Ohio  
Phoenixville, Pa.  
Durham, N. C.  
Burlington, N. C.  
Atlanta, Ga.  
Charlotte, N. C.  
Morristown, N. J.  
Highland Park, Ill.  
Durham, N. C.  
Toledo, Ohio

Coggin, Sarah Jane  
Collier, Anne  
Conoly, Suzanne  
Conrad, Patricia Ann  
Cooper, Helen Janet  
Cooper, Mary Smith  
Corpening, Barbara Iris  
Couble, Judith Patricia  
Craig, Joan  
Crawford, Virginia Hill  
Crowell, Doris Lee  
Cummings, Florence Rebmann  
Dackis, Kalliope Irene  
Demarest, Nancy Ramey  
Eisenberg, June Carolyn  
Elliott, Louise Elizabeth  
Ennis, Kathleen  
Falin, Joann  
Farrington, June Marie  
Feaster, Norma Dana  
Featherstone, Sarah Jane  
Flarsheim, Margaret Anne  
Fleming, Mary Frances  
Flintom, Ann Boyd  
Floyd, Virginia Belle  
Forrest, Dianne  
Forte, Carolyn Coleman  
French, Ellen Fleming  
Frost, Elizabeth Whitney  
Galbraith, Kathryn Charlotte  
Gans, Mary Rosalie  
Garnett, Ellen Marshall  
Gebert, Joan Phyllis  
Geitner, Alice Nixon  
Glass, Nancy Cobb  
Glenn, Jean Claire  
Golden, Dorothy Lita  
Goodman, Marilyn Bertha  
Grainger, Lillian Elizabeth  
Green, Barbara Louise  
Groves, Miriam Elizabeth  
Haldeman, Lillian Virginia  
Hall, Jane Madeline  
Hanser, Jana Lucille  
Hauser, Betty Lucile  
Hay, Virginia Anne  
Heard, Diana  
Hefflin, Patricia Gordon  
Henchie, Janet Hamilton  
Herr, Billye Barr  
Hiehle, Kathryn Jean  
Higgins, Marie Louise  
Hight, Jeanne  
Hill, Jean Caroline  
Hogue, Ann Carol  
Hooks, Mary Milburn  
Houck, Margaret Ann  
House, Mary Elizabeth  
Hunt, Nancy Maxine  
Hurst, Elizabeth June

Cary, N. C.  
Ormond Beach, Fla.  
Jacksonville, Fla.  
High Point, N. C.  
Buenos Aires, Argentina  
Greenville, N. C.  
Granite Falls, N. C.  
Arlington, Va.  
Camp Hill, Pa.  
Mobile, Ala.  
Lincolnton, N. C.  
Villanova, Pa.  
Durham, N. C.  
Plainfield, N. J.  
Burlington, N. C.  
Durham, N. C.  
Alexandria, Va.  
Kingsport, Tenn.  
Washington, D. C.  
Miami, Fla.  
Washington, N. C.  
Louisville, Ky.  
Bethesda, Md.  
Charlotte, N. C.  
Durham, N. C.  
Braintree, Mass.  
Charlotte, N. C.  
Woodstock, Va.  
Norfolk, Va.  
South Wales, N. Y.  
Baltimore, Md.  
Birmingham, Ala.  
Union, N. J.  
Huntersville, N. C.  
Durham, N. C.  
Washington, D. C.  
Miami, Fla.  
Wilmington, N. C.  
Bala-Cynwyd, Pa.  
St. Augustine, Fla.  
Gastonia, N. C.  
Tampa, Fla.  
Tampa, Fla.  
Clayton, Mo.  
Durham, N. C.  
Miami, Fla.  
Gulfport, Miss.  
Durham, N. C.  
Park Ridge, Ill.  
West Palm Beach, Fla.  
Fairmont, W. Va.  
Rome, Ga.  
Pine Bluff, Ark.  
Malden, Mass.  
Atlanta, Ga.  
Covington, Va.  
Roanoke, Va.  
Atlanta, Ga.  
Lexington, N. C.  
Winchester, Va.

- Imler, Ruthann  
 Johnson, Virginia Mae  
 Jones, Dorothy Louise  
 Jones, Jo Ann  
 Kane, Harriet Dickey  
 Kellogg, Aurorita DeWitt  
 Kinnikin, Janice Jeannette  
 Kiser, Bobbie Jo  
 Kiser, Mary Read  
 Knight, Virginia Frances  
 Knott, Sarah Ann  
 Lambert, Jo Anne  
 Lane, Alicia Claire  
 Lankton, Noel Anne  
 Lee, Dianne Baylor  
 Leeper, Doris Marie  
 Leffelman, Mary Louise  
 Lenning, Dorothy Ann  
 Leventis, Georgia James  
 Lindsey, Love Loureen  
 Linthicum, Leatrice Joyce  
 Lipscomb, Berenice Overton  
 Lockhart, Mary Jane  
 Lombard, Nancy Marion  
 Lunger, Marion Lillian  
 Marshall, Annette  
 Martin, Mary Chandler  
 Martin, Norma Louise  
 May, Barbara Watkins  
 McAlister, Patricia Maybelle  
 McBride, Jacqueline Faye  
 McClaskey, Mary Dan  
 McCormic, Joyce  
 McCullers, Clara May  
 McDonald, Mary Alice  
 McElrath, Mary Jane  
 McLawhorn, Madge Gay  
 McMullan, Mary Freeland  
 McNamee, Julia Patricia  
 Mitchell, Margaret Elizabeth  
 Mitchell, Mary Jones  
 Mix, Nancy Taber  
 Montgomery, Shasta Novelline  
 Morse, Carolyn Beeson  
 Moseley, Katherine Templeton  
 Moser, Rebecca Boone  
 Moyer, Jean Arlene  
 Mund, Margaret Eileen  
 Murdoch, Evelyn Janet  
 Nance, Ruth Myers  
 Newburn, Nancy Ruth  
 Newman, Jeannine  
 Ogden, Mary Frances  
 Olds, Marjorie Louise  
 Olive, Patsy Branch  
 Ontrich, Beryle Leslie  
 Paddock, Nancy Ellen  
 Palmer, Ainslie Louise  
 Park, Eileen Ora  
 Patton, Mildred Jones  
 Tulsa, Okla.  
 McKeesport, Pa.  
 Asheville, N. C.  
 Marion, Ind.  
 Kingsport, Tenn.  
 Short Hills, N. J.  
 Richmond, Va.  
 Albemarle, N. C.  
 Baltimore, Md.  
 Erie, Pa.  
 Burlington, N. C.  
 Charlotte, N. C.  
 Carthage, N. C.  
 Easton, Md.  
 Winston-Salem, N. C.  
 Charlotte, N. C.  
 Sumter, S. C.  
 Dayton, Ohio  
 Gastonia, N. C.  
 Ocala, Fla.  
 High Point, N. C.  
 Chevy Chase, Md.  
 Durham, N. C.  
 Summit, N. J.  
 Huntington, W. Va.  
 Johnson City, Tenn.  
 New York, N. Y.  
 Union, N. J.  
 Burlington, N. C.  
 Washington, Pa.  
 Rural Hall, N. C.  
 Anchorage, Ky.  
 Rowland, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Sandersville, Ga.  
 Winterville, N. C.  
 High Point, N. C.  
 Jacksonville, Fla.  
 Birmingham, Ala.  
 LaGrange, N. C.  
 Greenwich, Conn.  
 Washington, D. C.  
 Swarthmore, Pa.  
 Kinston, N. C.  
 Gastonia, N. C.  
 Oteen, N. C.  
 Washington, D. C.  
 Butner, N. C.  
 Charlotte, N. C.  
 Sarasota, Fla.  
 Charlotte, N. C.  
 Macon, Ga.  
 East Grand Rapids, Mich.  
 Durham, N. C.  
 Washington, D. C.  
 St. Louis, Mo.  
 Chicago, Ill.  
 Johnstown, Pa.  
 Durham, N. C.

Pentz, Joyce  
Perkins, Donna Jean  
Pitts, Isabel Keesler  
Platte, Wende Jane  
Potts, Jacqueline Beckman  
Praeger, Elinor  
Prestwich, Jane  
Procter, Elizabeth Marriott  
Prosser, Sally Madeline  
Pugh, Winifred Jean  
Quillian, Harriet Sandeford  
Reade, Ruth Lupton  
Reece, Patricia Ann  
Reid, Jean Allan  
Richards, Dejon Jean  
Roesch, Sibylle Diane  
Rosenblum, Judith Louise  
Rosoff, Jean Rosenbaum  
Ross, Jean Shirley  
Ross, Jeanne Carol  
Sanders, Marguerite Rembert  
Schaeffler, Sarah Stallman  
Schermerhorn, Jennette Ives  
Schneider, Joan Kathryn  
Schreiner, Ruth Irene  
Schrider, Jane Louise  
Schuler, Florence Ines  
Sherman, Virginia Anne  
Sizemore, Farish Banks  
Slocum, Joanne  
Smith, Isabella Chrystol  
Smith, Jessie Raymond  
Smith, Lena McArthur  
Smith, Rebekah Ann  
Sowers, Ella Frances  
Spicer, Dorothy Marye  
Stanley, Dorothy Louise  
Stebbins, Helen Yvonne  
Stormont, Mary Lytle  
Strickland, Elizabeth Wells  
Stroud, Mary Jo  
Sullivan, Emily Coy  
Swiger, Julia May  
Tate, Joan Foster  
Tedstrom, Mary Jeanne  
Terry, Jean Prentiss  
Thomas, Katharine Elizabeth  
Thomas Mary MacKenzie  
Thompson, Ramona Dolores  
Thorup, Betsy Jane  
Tillett, Anne Parker  
Tinnin, Marie  
Treadwell, Patricia Allie  
Trimmer, Mary Elizabeth  
Tuttle, Marianne  
Unangst, Joanne  
van Dobbenburgh, Ida Anna Maria  
Vierling, Margaret Elizabeth  
Voegelin, Joan  
Von Canon, Mary Charles

DuBois, Pa.  
Winston-Salem, N. C.  
Alexandria, La.  
Upper Montclair, N. J.  
Wilmette, Ill.  
Washington, D. C.  
Sarasota, Fla.  
Raleigh, N. C.  
Plant City, Fla.  
Greensboro, N. C.  
Coral Gables, Fla.  
Miami, Fla.  
Winston-Salem, N. C.  
Charleston, W. Va.  
Crestview, Md.  
Bronxville, N. Y.  
New York, N. Y.  
Schenectady, N. Y.  
Sanford, Me.  
Jacksonville, Fla.  
Columbia, S. C.  
Jacksonville, Fla.  
Providence, R. I.  
Washington, D. C.  
Prairie Du Chien, Wis.  
Toledo, Ohio  
Bogota, Colombia  
Ft. Lauderdale, Fla.  
High Point, N. C.  
Birmingham, Ala.  
Birmingham, Ala.  
Kinston, N. C.  
Clover, S. C.  
Lexington, N. C.  
Concord, N. C.  
Durham, N. C.  
Huntington, W. Va.  
Darien, Ga.  
Evanston, Ill.  
Atlanta, Ga.  
Jacksonville, Fla.  
Anderson, S. C.  
Clarksburg, W. Va.  
Washington, D. C.  
Santa Ana, Calif.  
Louisville, Ky.  
Silver Spring, Md.  
Burlington, N. C.  
Jacksonville, Fla.  
Wellesley Hills, Mass.  
Durham, N. C.  
Fayetteville, N. C.  
Arcadia, Fla.  
Rutledge Co., Pa.  
Winston-Salem, N. C.  
Nazareth, Pa.  
Enka, N. C.  
Grosse Pointe, Mich.  
Chicago, Ill.  
West End, N. C.

Wagner, Claude Marie  
Walker, Patricia Anne  
Walton, Eleanore Corsina  
Ward, Frances Annette  
Watson, Iva Jane  
Waybright, Mary Elizabeth  
Webb, Mary Eleanor  
Wechsler, Leta  
White, Phyllis  
Wiencke, Marian Louise  
Wilkins, Mary Alice  
Willingham, Lillian Lee  
Wilson, Carol Jean  
Winegeart, Sallie Ann  
Winslow, Martha Manning  
Woodall, Ann Wescott  
Woodward, Consuelo Louise  
Woodward, Dorothy  
Woodward, Sara Elizabeth  
Wright, Patricia Hamilton

New York, N. Y.  
Margate, N. J.  
Durham, N. C.  
Elizabeth City, N. C.  
McKeesport, Pa.  
Charleston, W. Va.  
Miami Beach, Fla.  
Maplewood, N. J.  
Palmerton, Pa.  
East Orange, N. J.  
Sanford, N. C.  
Ridgely, Tenn.  
Erie, Pa.  
Jacksonville, Fla.  
Goldsboro, N. C.  
Warrenton, N. C.  
Parkersburg, W. Va.  
Raleigh, N. C.  
Columbus, Ga.  
West Newton, Mass.

## JUNIOR CLASS

Alberts, Nancy Martin  
Aldridge, Betty  
Allen, Helen Elizabeth  
Alley, Nancy Milburn  
Alyea, Jane Dinsmore  
Anderson, Barbara Jean  
Bailey, Margaret Levis  
Bailey, Marilyn Virginia  
Ball, Rebecca Temple  
Barksdale, Ann Hooper  
Barrell, Cynthia  
Barron, Josephine Marie  
Beal, Barbara Bicknell  
Bedell, Pamela Joann  
Bercovitz, Mary C.  
Betha, Frances Margaret  
Bibb, Marion Almy  
Bird, Jocelyn Ann  
Blackwell, Lucy H. Mashburn  
Blair, Elizabeth Watkins  
Blaydes, Boyd  
Blizard, Margaret Poulton  
Bolz, Mary Louise  
Botkin, Janet Faye  
Bowers, Ruth Elizabeth Bell  
Bracken, Nancy Anne  
Brady, Barbara Elaine  
Brash, Patricia Edna  
Bratton, Mary Lou  
Brose, Constance Clayton  
Brown, Elizabeth Jean  
Brug, Nyle Jane  
Burnett, Helen Allen  
Burns, Joan Arlene  
Burrum, Rebecca Inez  
Butler, Erma Maude  
Callaham, Betty Elgin  
Callihan, Betty Carolyn

Suffolk, Va.  
Birmingham, Ala.  
Orlando, Fla.  
Palm Beach, Fla.  
Montclair, N. J.  
Bloomfield, N. J.  
Charlotte, N. C.  
Jacksonville, Fla.  
Raleigh, N. C.  
Atlanta, Ga.  
Maplewood, N. J.  
Delray Beach, Fla.  
Durham, N. C.  
McLeansville, N. C.  
New York, N. Y.  
Orlando, Fla.  
Chattanooga, Tenn.  
Toronto, Ontario, Canada  
Gneiss, N. C.  
Charlotte, N. C.  
Bluefield, W. Va.  
Arlington, Mass.  
Cleveland Heights, Ohio  
Evanston, Ill.  
Bristol, Tenn.  
Ocala, Fla.  
New York, N. Y.  
Gulfport, Miss.  
Huntington Woods, Mich.  
Yonkers, N. Y.  
Trujillo, Dom. Rep.  
Shaker Heights, Ohio  
Durham, N. C.  
Pittsfield, Mass.  
Gallatin, Tenn.  
Addison, N. Y.  
Honea Path, S. C.  
Ashland, Ky.



Cammack, Lois Jane  
 Caveness, Betty Jean  
 Childers, Carolyn Jean  
 Chivers, Jane Carter  
 Coleman, Elizabeth Heath  
 Collins, Patricia Ann  
 Collins, Roland Castex  
 Conner, Ellen Young  
 Cox, Mary Annelle  
 Creech, Dorothy Selina  
 Cromer, DeWitt Bynum  
 Crook, Cordylia  
 Crum, Patricia  
 Cruthers, Barbara Alice  
 Culbreth, Mary Helen  
 Davis, Ann  
 Dawes, Mary Josephine  
 Deaton, Peggy Jane  
 DuBerger, Lorraine Avis  
 Dundas, Elgiva Ruth  
 Eckert, Helen Barbara  
 Edwards, Lucinda  
 Elmore, Isabel Josselyn  
 Evans, Patricia Suzanne  
 Farrington, Nancy  
 Ferrell, Elizabeth Harris  
 Finter, Mary Fae  
 Fisher, Lucia Eloidia  
 Flanders, Luck Coleman  
 Foscue, Elizabeth Joan  
 Franklet, Margaret Louise  
 Frazee, Mildred Evelyn  
 Freedman, Doris Jeanette  
 Fulcher, Jo Frances  
 Gano, Sarah Ann  
 Gerber, Beverly Janice  
 Glaze, Doris Jorgensen  
 Glover, Marion Lee  
 Goode, Isolee Gile  
 Green, Constance Clar  
 Griggs, Joyce Gene  
 Habenicht, Betty May  
 Hanson, Lorelei O'Connor  
 Harkey, Mary Mincey  
 Harling, Betty Ruth  
 Harlow, Ann Katharine  
 Harris, Martha Catherine  
 Harrison, Elizabeth Kutz  
 Haynes, Virginia  
 Helseth, Emily Ananda  
 Hendricks, Joyce  
 Heninger, Catherine Grace  
 Hickman, Florence Bunting  
 Hillsley, Margaret Trevenning  
 Hinson, Margaret Ferrell  
 Hobbs, Lois Dean  
 Holland, Nancy York  
 Hooker, Nancy Bonner  
 Horton, Mary Moore  
 Huchingson, Eurlene Virginia

Burlington, N. C.  
 Raleigh, N. C.  
 Huntington, W. Va.  
 Baldwin, L. I., N. Y.  
 Macon, Ga.  
 Cincinnati, Ohio  
 Kinston, N. C.  
 Parkersburg, W. Va.  
 Atlanta, Ga.  
 Goldsboro, N. C.  
 Winston-Salem, N. C.  
 Toledo, Ohio  
 Durham, N. C.  
 West Englewood, N. J.  
 Durham, N. C.  
 Roanoke, Va.  
 Rome, Ga.  
 Charlotte, N. C.  
 Concord, Mass.  
 Southern Pines, N. C.  
 Durham, N. C.  
 Washington, N. C.  
 Sheffield, Ala.  
 Scranton, Pa.  
 Thomasville, N. C.  
 Durham, N. C.  
 Washington, D. C.  
 Manhasset, L. I., N. Y.  
 Swainsboro, Ga.  
 Port Washington, L. I., N. Y.  
 Bradenton, Fla.  
 Barnegat, N. J.  
 Durham, N. C.  
 Tulsa, Okla.  
 Ft. Thomas, Ky.  
 Barrington, R. I.  
 Kew Gardens, L. I., N. Y.  
 Maplewood, N. J.  
 Charlotte, N. C.  
 Huntington, W. Va.  
 Barnesville, Ga.  
 Columbia, S. C.  
 Geneva, Ill.  
 Charlotte, N. C.  
 Spartanburg, S. C.  
 Bridgeport, Conn.  
 Elkin, N. C.  
 Fayetteville, N. C.  
 Jacksonville, Fla.  
 West Palm Beach, Fla.  
 Silver Spring, Md.  
 Allentown, Pa.  
 Philadelphia, Pa.  
 Philadelphia, Pa.  
 Charlotte, N. C.  
 Pittsburgh, Pa.  
 Franklin, Va.  
 Durham, N. C.  
 Concord, N. C.  
 Lakeland, Fla.

- Hull, Jean  
 Hutton, Jeanne Marie  
 Huyler, Phyllis Cynthia  
 Ingwersen, Mary  
 Ivey, Mary Clare  
 Jackson, Mary Isabel  
 James, Eleanor Micheaux  
 Jansen, Hazel  
 Johnson, Beatriz Amparo  
 Johnson, Elaine Bernice  
 Jones, Margaret Griffith  
 Kellam, Anne Goffigan  
 Kelley, Jean Elizabeth  
 Kern, Marion Louise  
 King, Betty Davis  
 King, Lucinda Margaret  
 King, Mary Norton  
 Kirk, Jane Seaver  
 Korstian, Grace Catherine  
 Latty, Eunice Beulah  
 Lawrence, Frances Elaine  
 Lewis, Doris Helen  
 Lewis, Mary Anne O'Rourke  
 Lipscomb, Imogene Faye  
 Lourie, Betty Brody  
 Lovejoy, Virginia  
 Ludwig, Charlotte Maxine  
 Lydon, Elizabeth Anne  
 MacKenzie, Martha Harris  
 Maier, Wanda Katherine  
 Malkasian, Sally Frances  
 Marvin, Corinne  
 Maxfield, Mary Ann  
 McCuiston, Erdmuth Dorothea  
 McDaniel, Beverly Ann  
 McDermott, Sara Carolyn  
 McDonald, Flora Elizabeth  
 McElroy, Celia Anne  
 Meloy, Patricia Anne  
 Miffleton, Ardenia Louise  
 Mims, Virginia Greenlee  
 Mitchell, Joann  
 Morgan, Alethia Benbury  
 Morse, Carolyn Frances  
 Mouat, Mary Elizabeth  
 Murdock, Lucy Patricia  
 Murray, Elizabeth Cornelia  
 Murray, Jean Farley  
 Myers, Marilyn  
 Myers, Martha Rose  
 Neeley, Alice Randolph  
 Neumeister, Helen Louise  
 Parker, Eloise Hendricks  
 Parker, Susan Hoge  
 Patterson, Sally Elizabeth  
 Peters, Dulcy Cynthia  
 Pierce, Francine Gwynne  
 Povejsil, Alice Joan  
 Pratt, Mary Louise  
 Propst, Frances Wilkinson  
 Jacksonville, Fla.  
 Hickory, N. C.  
 Floral Park, L. I., N. Y.  
 Middletown, Ohio  
 Charlotte, N. C.  
 Williamsport, Pa.  
 Greenville, N. C.  
 Mobile, Ala.  
 Leesburg, Fla.  
 Pensacola, Fla.  
 Culpepper, Va.  
 Princess Anne, Va.  
 Suffolk, Va.  
 Lansdowne, Pa.  
 Washington, D. C.  
 Baltimore, Md.  
 Charlotte, N. C.  
 Keene, N. H.  
 Durham, N. C.  
 Petersburg, Va.  
 Germantown, N. Y.  
 Carlsbad, N. Mex.  
 Durham, N. C.  
 Hamlet, N. C.  
 Durham, N. C.  
 Winchester, Mass.  
 Elkin, N. C.  
 Cranford, N. J.  
 High Point, N. C.  
 Wright Field, Dayton, Ohio  
 Longmeadow, Mass.  
 Washington, D. C.  
 Lake Charles, La.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Lansdowne, Pa.  
 Durham, N. C.  
 Okmulgee, Okla.  
 Louisville, Ky.  
 Petersburg, Va.  
 Memphis, Tenn.  
 Salisbury, Md.  
 Durham, N. C.  
 Atlanta, Ga.  
 Birmingham, Ala.  
 Durham, N. C.  
 Durham, N. C.  
 Plymouth, Mich.  
 Washburn, Ill.  
 Durham, N. C.  
 Birmingham, Ala.  
 River Forest, Ill.  
 Durham, N. C.  
 Mt. Pleasant, Tenn.  
 Chevy Chase, Md.  
 Scarsdale, N. Y.  
 New York, N. Y.  
 Shaker Heights, Ohio  
 Sumter, S. C.  
 Concord, N. C.

Puett, Sarah Young  
 Purcell, Elizabeth Ashton  
 Rainey, Merle Elizabeth  
 Rake, Barbara Anne  
 Ramalho, Doris Helen  
 Raney, Jean  
 Rankin, Nell Oakley  
 Reed, Sara Evelyn  
 Rees, Fay  
 Register, Sarah Louise  
 Reid, Ann Townsend  
 Reid, Joan M. Rice  
 Reske, Virginia Claire  
 Reynolds, Mary Jo  
 Rice, Marianne Lindsay  
 Richardson, Ann Marie  
 Rosenman, Helen Maxine  
 Rousseau, Nancy Hart  
 Ryan, Mary Josephine  
 Sampley, Annelie  
 Sanders, Gertrude Nelson  
 Sanner, Avie May  
 Saunders, Jean Marilyn  
 Seaberg, Mary Elizabeth  
 Seeley, Naomi Ruth  
 Shipton, Lois Ann  
 Slaughter, Madge Rayle  
 Smisson, Frances Nell  
 Smith, Anna Lee  
 Smith, Betty Gene  
 Smith, Ethel Beverly  
 Snell, Shirley May  
 Sommer, Sylvia Ann  
 Soo, Kit Wan  
 Steiner, Golde Joan  
 Stewart, Catherine Grier  
 Stewart, Gertrude Theresa  
 Storck, Dorothea deVerdery  
 Streicher, Marjorie Mary  
 Suggs, Jane Estelle  
 Sutton, Anne Vaughan  
 Sweet, Harriet Alison  
 Synnott, Joan Eugenie  
 Talbot, Geane Dolores  
 Talbot, Mary Castleman  
 Taylor, Grace Elizabeth  
 Taylor, Nancie Jane  
 Tennent, Louise Cooper  
 Tucker, Polly Bradshaw  
 Tuttle, Jane C.  
 Tuttle, Kathryn Mims  
 Tyler, Marjorie Ann  
 Van Houten, Barbara Jean  
 Warner, Helene Elizabeth  
 Weiland, Mary Louise  
 Weith, Evelyn Frances  
 Wharton, Katherine Marion  
 White, Emily Jennings  
 White-Spunner, Barbara Letitia  
 Whitmore, Mary Ellen

Dallas, N. C.  
 Huntington, W. Va.  
 Fayetteville, N. C.  
 Philadelphia, Pa.  
 Flemington, N. J.  
 Arlington, Va.  
 Raleigh, N. C.  
 Charlotte, N. C.  
 Richmond, Va.  
 Valdosta, Ga.  
 St. Augustine, Fla.  
 Bristol, Conn.  
 Chicago, Ill.  
 Fort Myers, Fla.  
 Dyersburg, Tenn.  
 Star, N. C.  
 Wilmington, N. C.  
 North Wilkesboro, N. C.  
 High Point, N. C.  
 Eastman, Ga.  
 Murfreesboro, Tenn.  
 Clarksville, Md.  
 Paris, Ky.  
 Tenaflly, N. J.  
 Durham, N. C.  
 Pittsfield, Mass.  
 Orlando, Fla.  
 Fort Valley, Ga.  
 Raleigh, N. C.  
 Greenville, S. C.  
 Spartanburg, S. C.  
 Richmond, Va.  
 Crawfordsville, Ind.  
 Kampar, Perak, Malaya  
 Richmond, Va.  
 Charlotte, N. C.  
 Omaha, Neb.  
 Bronxville, N. Y.  
 High Point, N. C.  
 Durham, N. C.  
 DeLand, Fla.  
 Evanston, Ill.  
 Mt. Vernon, N. Y.  
 Ocean City, N. J.  
 London Bridge, Va.  
 Roanoke Rapids, N. C.  
 Shaker Heights, Ohio  
 Houston, Texas  
 Erwin, Tenn.  
 Halesite, L. I., N. Y.  
 Durham, N. C.  
 Birmingham, Ala.  
 Hopewell, Va.  
 Tuscaloosa, Ala.  
 Coral Gables, Fla.  
 Caldwell, N. J.  
 Ft. Lauderdale, Fla.  
 Elizabeth City, N. C.  
 Crafton, Pittsburgh, Pa.  
 Norfolk, Va.

Wilks, Marilyn Louise  
 Williams, Anne St. Clair  
 Wolf, Anna Hermine  
 Womble, Barbara  
 Wood, Judith Ann  
 Wood, Louise Elder  
 Wynn, Bettie Bennett  
 Zarnick, Florence Anne

Manhasset, L. I., N. Y.  
 Durham, N. C.  
 Charlotte, N. C.  
 Durham, N. C.  
 Salisbury, Md.  
 Bradenton, Fla.  
 Wynnburg, Tenn.  
 Newark, N. J.

## SENIOR CLASS

Aarons, Helen Jo  
 Abrams, Ida Ulman  
 Alexander, Nancy Lee  
 Allen, Eleanor Elizabeth  
 Allen, Ellen Carol  
 Anderson, Harriet McFall  
 Armstrong, Barbara Ruth  
 Arnest, Susan Oatfield  
 Arnold, Nina Dorris  
 Atkins, Mary Ann  
 Baker, Betty Griscom  
 Barrett, Alice Elizabeth  
 Barthen, Adrienne DeWolf  
 Baynes, Julia Belle  
 Beach, Betty Evelyn  
 Beck, Martha Katherine  
 Becker, Frances Elizabeth  
 Bell, Patricia Nan  
 Bishop, Mary Phyllis  
 Blackham, Barbara Elois  
 Bleckley, Louise Marie  
 Bloom, Nancy Jean  
 Blue, Janet Shirley  
 Bockmiller, Elizabeth Spencer  
 Bohn, Benita Suzanne  
 Brim, Doris Overton  
 Brinkman, Mary Elizabeth  
 Brooks, Mary Elizabeth  
 Brown, Jean Marie  
 Brown, Sarah Lee  
 Bryant, Jeanette Elizabeth  
 Buck, Elizabeth Williams  
 Bunn, Agnes Sidney  
 Burke, Nancy Marie  
 Byers, Edith Evangeline  
 Caldwell, Jane Nelson  
 Camphausen, Janet  
 Carr, Julia Toms  
 Cato, Wilma Roberts  
 Chamison, Alice Elizabeth  
 Chapman, Frances Jean  
 Charrier, Doris  
 Clarke, Rosamond Louise  
 Clouse, Mildred Terrill  
 Copeland, Marion Evelyn  
 Cosby, Jayne Hathaway  
 Courtney, Alma Seagle  
 Cove, Enta Harriette  
 Cox, Mary Dixon  
 Crane, Marcia Florine

New Bern, N. C.  
 Hopewell, Va.  
 Passaic, N. J.  
 Durham, N. C.  
 Richmond, Va.  
 Clemson, S. C.  
 Danville, Ky.  
 Oldham, Va.  
 Savannah, Ga.  
 Paragould, Ark.  
 Jacksonville, Fla.  
 Mobile, Ala.  
 River Edge, N. J.  
 Hurdle Mills, N. C.  
 St. Petersburg, Fla.  
 Hughes, Ark.  
 Winnetka, Ill.  
 Arlington, Va.  
 Stone Mountain, Ga.  
 Uniontown, Pa.  
 Marion, Va.  
 Sunbury, Pa.  
 Raeford, N. C.  
 Baltimore, Md.  
 Louisville, Ky.  
 Greensboro, N. C.  
 Orlando, Fla.  
 Monroe, N. Y.  
 Detroit, Mich.  
 St. Louis, Mo.  
 Cape Elizabeth, Me.  
 DeLand, Fla.  
 Spring Hope, N. C.  
 Burlington, N. C.  
 Earl, N. C.  
 Morganton, N. C.  
 Wilmette, Ill.  
 Durham, N. C.  
 Salisbury, N. C.  
 Hendersonville, N. C.  
 Cuyahoga Falls, Ohio  
 Sanford, Me.  
 Cincinnati, Ohio  
 Asheville, N. C.  
 Tulsa, Okla.  
 Richmond, Va.  
 Lenoir, N. C.  
 Chattanooga, Tenn.  
 Mount Olive, N. C.  
 Santa Ana, Calif.

Crum, Ashlyn  
 Dale, Sarah Helen  
 Daly, Jean Ann  
 Deming, Jeanne Champion  
 Dennett, Elisabeth Wight  
 Derr, Mary Elizabeth  
 DesJardins, Elizabeth Ann  
 Dewar, Lillian Daniel  
 Dibble, Frances Joan  
 Dodson, Sarah Freeman  
 Donaldson, Jenny Dye  
 Duncan, Marion Louise  
 Duncan, Martha Moore  
 DuPlessis, Loraine Joan  
 East, Doris Eleanor  
 Eichman, Eugenie Ann  
 Farley, Frances Willoughby  
 Feamster, Mary Lou  
 Feemster, Roioli Viloyo  
 Ferguson, Carolyn  
 Field, Shirley Augusta  
 Finke, Doris Elaine  
 Finley, Frances Fay  
 Flowers, Claire Howard  
 Fonvielle, Betsy Keaton  
 Forbus, Georg' Ellen Davis  
 Fuchs, Jane Lucille  
 Funk, Betty Anne  
 Gale, Mary E. DeMauro  
 George, Lillian Lucille  
 Gift, Marjorie Irving  
 Glenn, Mary Myrtis  
 Gochnauer, Dorothy Tinnin  
 Goodrum, Margaret Lovenia  
 Gramling, Mary Josephine  
 Greenwald, Estelle Beatrice  
 Griffin, Harriet Rose  
 Griffin, Nancy Carlisle  
 Hackett, Mary Rothrock  
 Hamill, Mary Virginia  
 Hamrick, Rosemary  
 Hanks, Nancy  
 Harding, Joan Burrough  
 Hardy, Ella Carrington  
 Harrell, Virginia Blackwell  
 Harris, Gene Ragland  
 Harris, Lena Jane  
 Harriss, Dorothy Louise  
 Harward, Betty Sue  
 Hayes, Virginia Marcella  
 Hedden, Nancy Erwin  
 Hendricks, Mary Elizabeth  
 Henson, Lillie Mary  
 Herrick, Mary McKinney  
 Heykoop, Alida  
 Hickman, Mary Frey  
 Higgins, Margaret Elizabeth  
 Hoff, Elizabeth DuBose  
 Horton, Theresa Elizabeth  
 Hough, Mary Jane  
 Orangeburg, S. C.  
 Plant City, Fla.  
 Palm Baech, Fla.  
 New Haven, Conn.  
 Atlanta, Ga.  
 Lancaster, Pa.  
 Lapeer, Mich.  
 Raleigh, N. C.  
 Hillsdale, Mich.  
 New Orleans, La.  
 Loving, N. M.  
 Durham, N. C.  
 Raleigh, N. C.  
 Wallingford, Conn.  
 Durham, N. C.  
 Toledo, Ohio  
 Ft. Monmouth, N. J.  
 Beckley, W. Va.  
 Brookline, Mass.  
 Dallas, Texas  
 Charlotte, N. C.  
 Houston, Texas  
 Roanoke, Va.  
 Thomasville, Ga.  
 Wilmington, N. C.  
 Durham, N. C.  
 South Miami, Fla.  
 Louisville, Ky.  
 Raleigh, N. C.  
 Spartanburg, S. C.  
 Winter Park, Fla.  
 Roslyn Heights, L. I., N. Y.  
 Fayetteville, N. C.  
 Charlotte, N. C.  
 Gadsden, Ala.  
 Hagerstown, Md.  
 Macon, Ga.  
 Louisburg, N. C.  
 Lexington, N. C.  
 Huntington, W. Va.  
 Forest City, N. C.  
 Ft. Worth, Texas  
 Rutherford, N. J.  
 Durham, N. C.  
 New Castle, Va.  
 Elizabeth City, N. C.  
 Durham, N. C.  
 Sanford, N. C.  
 Durham, N. C.  
 Elkin, N. C.  
 Detroit, Mich.  
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 Ft. Worth, Texas  
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- Huie, Ineze Jeanette  
 Hull, Patricia Ann  
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 Hutchings, Lydia Marie  
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 Izlar, Laurie Virginia  
 Jenkins, Harryette Cockrell  
 Jennings, Martha Renfroe  
 Jones, Mary Virginia  
 Jordan, Mary Katherine  
 Jordan, Rose Anne  
 Kansteiner, Dorothy Joan  
 Kemper, Shirley Rose  
 Kendall, Ruth Lane  
 Kennedy, Patricia Willard  
 Kerr, Barbara Anne  
 Kester, Nancy Conrad  
 Kilmer, Jean  
 Kinsey, Josephine Ann  
 Klenke, Joan  
 Krayner, Martha Helen  
 Kuykendall, Rowena Beth  
 Lacombe, Barbara Ann  
 Lake, Mary Ruth  
 Lasley, Emily Sue  
 Lauer, Joan  
 Laughlin, Helen Elizabeth  
 Learmont, Carol Louise  
 LeCompte, Anne Louise  
 Leitch, Jane Morgan  
 Lewis, Sheila Caroline  
 Ligon, Elsie Pauline  
 Litchard, Anne Loring  
 Little, Norma Lee  
 Lundeborg, Mary Naomi  
 Lynch, Irene Claire  
 Mackey, Constance Jean  
 MacSpadden, Mary Jean  
 Mall, Nancy Elizabeth  
 Manley, Emma Hall  
 Mapp, Elizabeth James  
 Markham, Anita Beverly  
 Matthaus, Barbara Lee  
 McClure, Margaret Elizabeth  
 McCrary, Martha Penn  
 McDonald, Elizabeth Lois  
 McFarlan, Margaret Ann  
 McGrael, Ruth Katharine  
 McLean, Lucile  
 McLeod, Alice John  
 McLeod, Mary Thomas  
 McLeod, Nancy Elizabeth  
 McPherson, Jeanne Dutton  
 McWhorter, Sara Lucile  
 Melvin, Jean Isabella  
 Merrill, Margaret Noble  
 Messerly, Patricia Anne  
 Meuche, Marion Lane Davis  
 Millner, Annie Bruce  
 Moore, Patricia Lou  
 Corpus Christi, Texas  
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 Greensboro, N. C.  
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 Winston-Salem, N. C.  
 Ocala, Fla.  
 Irvine, Ky.  
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 Buenos Aires, Argentina  
 Saxapahaw, N. C.  
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 Savannah, Ga.  
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 Raleigh, N. C.  
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 Grafton, Mass.  
 Scarsdale, Mass.  
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 Winston-Salem, N. C.  
 Orchard Park, N. Y.  
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 Meriden, Conn.  
 Lakewood, N. J.  
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 Miami Beach, Fla.  
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 Boca Raton, Fla.  
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 Johns, N. C.  
 Rockingham, N. C.  
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Morgan, Gene Morton  
Morrison, Harriett Elizabeth  
Moser, Nina Sue  
Mousmouses, Estelle A.  
Naylor, Beatrice Claire  
Neal, Muriel Frances  
Nelson, Margaret McMurran  
Nesbitt, Helen Roe  
Nesbitt, Martha Phillips  
Nesmith, Nancy  
Neuhauser, Marilyn Justyn  
Nichols, Martha Louise  
Nixon, Janet Mildred  
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Nobles, Dorothy Gertrude  
Norcross, Marcia Lee  
Nygaard, Elizabeth Bledsoe  
Olson, Nancy Nelle  
Osteen, Claudia Louise  
Outlaw, Jeanne Gaines  
Palmer, Jeanne Moody  
Patton, Alice Lucinda  
Penfield, Margaret Anne  
Phillips, Cherry Christine  
Pickens, Celia Elizabeth  
Prince, Rosalie Estelle  
Proctor, Ella Anne  
Query, Joan  
Quinn, Marie  
Rankin, Anna Weedon  
Reams, Caroline  
Reed, Carolyn Lois  
Reifsnyder, N. Fay  
Reynolds, Dorothy Yarbrough  
Richards, Joan Elizabeth  
Richardson, Gene Stevens  
Robinson, Mary Rowland  
Robinson, Nancy Anne  
Rodgers, Tillie Virginia  
Rumble, Emily Elisabeth  
Rushing, Betty Marie  
Sampley, Eloise Tilley  
Satchwell, Edith Eyre  
Savage, Jean  
Sawyer, Ellen Louise  
Saylor, Letty Lois  
Schmid, Nancy Louise  
Schwartz, Roslyn Charlotte  
Stegall, Shirley Elizabeth  
Shapleigh, Shirley  
Shaw, Constance Eleanor  
Shaw, Dorothy Patricia  
Shoaf, Rita Marie  
Siachos, Thalia Arthur  
Simpson, Sarah Louise  
Skaale, Elizabeth Ann  
Skinner, Marilyn Dale  
Slaven, Katharine Hooper  
Smith, Anne  
Smith, Betty Maude

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High Point, N. C.  
Winston-Salem, N. C.  
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Portsmouth, Va.  
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Birmingham, Ala.  
Garden City, L. I., N. Y.  
New York, N. Y.  
Lookout Mountain, Tenn.  
Winchester, Va.  
Easton, Md.  
Pensacola, Fla.  
Tampa, Fla.  
Bluefield, W. Va.  
St. Petersburg, Fla.  
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Asheville, N. C.  
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Durham, N. C.  
West Hartford, Conn.  
Birmingham, Ala.  
Raleigh, N. C.  
Dunn, N. C.  
Durham, N. C.  
Montgomery, Ala.  
York, Pa.  
Concord, N. C.  
Toledo, Ohio  
St. Petersburg, Fla.  
West Chester, Pa.  
Spartanburg, S. C.  
Elberon, N. J.  
Eustis, Fla.  
Ashtabula, Ohio  
Concord, N. C.  
Washington, N. C.  
Swarthmore, Pa.  
Savannah, Ga.  
Morehead City, N. C.  
Roanoke, Va.  
Lakewood, Ohio  
Lakewood, Ohio  
Durham, N. C.  
Jackson, Miss.  
New York, N. Y.  
Tampa, Fla.  
Wilmington, Del.  
Brooklyn Heights, N. Y.  
Shaker Heights, Ohio  
Quitman, Ga.  
Greenville, S. C.  
Oakboro, N. C.  
Raleigh, N. C.  
Zephyrhills, Fla.  
Williamson, W. Va.  
Norfolk, Va.  
Bethel, N. C.

Smith, Mary Elizabeth Maldoon  
 Smith, Mary Jane  
 Spencer, Aline Hufham  
 Spoon, Dorothy Belle  
 Stemple, Peggy Gizella  
 Stern, Margaret Melinda  
 Stewart, Jane Ellerbe  
 Stivers, Marilyn Anne  
 Sullivan, Rachel  
 Sumner, June Sharon  
 Swartswelter, Anne  
 Taylor, Mildred Louise  
 Thomas, Martha Launius  
 Tinsley, Barbara Lee  
 Tracy, Peggy Ann  
 Tropman, Anna McDonough  
 Tynes, Edith Elizabeth  
 Vahey, Nancy Margaret  
 VanNortwick, Kathryn Ward  
 Vick, Lois Hutchinson  
 Vosburgh, Mary Elizabeth  
 Wadlington, Bernice  
 Waggoner, Allison Barnwell  
 Walker, Audrey Kendall  
 Walter, Grace Pirkey  
 Walters, Elizabeth Roberta  
 Waring, Mary Louise  
 Watson, Lucy Rutledge  
 West, Katharine Bartram  
 Westbrook, Betty Sue  
 Westbrook, Janet Virginia  
 Wharton, Joanne Clark  
 Whetstone, Gloria Kathleen  
 White, Dorothea Jeanne  
 Widenhouse, Frances Marie  
 Wilkins, Jane Pittman  
 Williams, Katherine Bixler  
 Williams, Sally Hall  
 Williamson, Clara Eugenia  
 Wilson, Rose Marie  
 Wimberly, Mary Mack  
 Wimberly, Patricia Anne  
 Wise, Virginia Lucille  
 Woodard, Dorothy Whitehead  
 Wooten, Lillian Hooker  
 Wurmstich, Roberta Annamarie  
 Zahner, Jane Logan  
 Zipplies, Anne Callaway  
 Zittrouer, Shirley Ann

St. Paul, Minn.  
 Shelbyville, Tenn.  
 Wilmington, N. C.  
 Wright Field, Dayton, Ohio  
 Belmont, Mass.  
 Bristol, Tenn.  
 Charlotte, N. C.  
 Miami Beach, Fla.  
 Durham, N. C.  
 Washington, D. C.  
 Youngstown, Ohio  
 Durham, N. C.  
 Monroe, Ga.  
 Lynchburg, Va.  
 Greensburg, Pa.  
 Durham, N. C.  
 Birmingham, Ala.  
 Boston, Mass.  
 Greenville, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Biloxi, Miss.  
 Atlanta, Ga.  
 Bloomfield, N. J.  
 Dixon, Ill.  
 Atlanta, Ga.  
 Chattanooga, Tenn.  
 Jacksonville, Fla.  
 Durham, N. C.  
 Wilmington, N. C.  
 Hemlock, N. Y.  
 Washington, D. C.  
 Durham, N. C.  
 Alexandria, Va.  
 Kannapolis, N. C.  
 Sanford, N. C.  
 McConnelsville, Ohio  
 Raleigh, N. C.  
 Durham, N. C.  
 Bradenton, Fla.  
 Jacksonville, Fla.  
 Eagle Lake, Fla.  
 Winter Haven, Fla.  
 Wilson, N. C.  
 Greenville, N. C.  
 Mountain Lakes, N. J.  
 Druham, N. C.  
 Savannah, Ga.  
 Atlanta, Ga.

#### SPECIAL STUDENTS

Adams, Ruth Marguerite  
 Allen, Barbara Jean  
 Alyea, Nancy  
 Anderson, Josephine Rose  
 Anderson, June Elizabeth  
 Auter, June Madeleine  
 Bason, Bettye Greene  
 Bean, Mary Barry  
 Bellafonte, Catherine Barbara

Truman, Minn.  
 Lewiston, Pa.  
 Durham, N. C.  
 Holbrook, Mass.  
 Vinton, Va.  
 Forest Hills, L. I., N. Y.  
 Graham, N. C.  
 Rockland, Mass.  
 Hackensack, N. J.

Boring, Barbara Adair  
 Boyce, Anne Tilghman  
 Bruton, Ruth  
 Bryant, Allison Faye  
 Burrow, Betty Belle  
 Caldeyro, Maria Sara  
 Carey, Alice Martin  
 Carlson, Eleanor Maria  
 Carter, Naomi Ruth  
 Causey, Eva Colleen  
 Caviness, Edith Ann  
 Charles-Craft, Mary Lucy  
 Cheek, Virginia Johnson  
 Clegg, Elizabeth Douglas  
 Compton, Anna Belle  
 Cooke, Selena Greene  
 Cooper, Anna Jane  
 Cooper, Mary Elizabeth  
 Crawley, Hattie Mildred  
 Crouse, Louise Poole  
 Davis, Barbara Jean  
 Davis, Pauline  
 Day, Betty Mae  
 Deans, Agnes June  
 De Young, Mary Lee Hodges  
 Dieffenbach, Anne Caroline  
 Diggs, Gerry Annette  
 Dobson, Thelma Antoinette  
 Easter, Maxine Virginia  
 Fales, Doris Adele  
 Farlow, Ruth  
 Flanagan, Rita Mae  
 Franck, Martha L.  
 Franklin, Helen Bryson  
 Frazee, Charman  
 Galloway, Olive Valeria  
 Gardner, Beatrice L.  
 Godefroy, Hannah Norris  
 Habig, Elizabeth Ann  
 Haeseker, Elaine  
 Harris, Lois Thelma  
 Heath, Marjorie L.  
 Hoover, Faith  
 Johnstone, Beatrice Grieb  
 King, Aurie Elizabeth  
 King, Frances Lohr  
 Langford, Rose Hope  
 Larrivee, Juliet Marie  
 Lavin, Natalie Brewster  
 Leffelman, Mary Gerard  
 Luther, Dorothy Carolyn  
 Martin, Elizabeth Reaves  
 McClay, Eileen Taylor  
 McDougall, Sarah E.  
 McNeill, Betty Louise  
 Melton, Velma Ray  
 Melvin, Margaret  
 Menefee, Mary Ann  
 Michael, Elinor Elaine  
 Miller, Margaret Emma  
 Milosh, Elsie

Wildwood, Fla.  
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 Thomasville, N. C.  
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 Bristol, Tenn.  
 Montevideo, Uruguay  
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 New Bedford, Mass.  
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 Lillington, N. C.  
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 Durham, N. C.  
 Durham, N. C.  
 Arlington, Va.  
 Durham, N. C.  
 Mt. Williams, Va.  
 Durham, N. C.  
 Statesville, N. C.  
 Cedar Falls, N. C.  
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 North Charleston, S. C.  
 Knoxville, Tenn.  
 Belhaven, N. C.  
 Lopez, Pa.  
 Saltville, Va.  
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 Winston-Salem, N. C.  
 Wilmington, N. C.  
 Gastonia, N. C.  
 Westminster, Md.  
 Durham, N. C.  
 Washington, N. C.  
 Indianapolis, Ind.  
 Lakeland, Fla.  
 Durham, N. C.  
 Raleigh, N. C.  
 Nutley, N. J.  
 Irvington, N. J.  
 Durham, N. C.  
 Union, S. C.  
 Durham, N. C.  
 Durham, N. C.  
 Brevard, N. C.  
 Lexington, N. C.  
 Emporia, Va.  
 Fall River, Mass.  
 Durham, N. C.  
 Sumter, S. C.  
 Miami, Fla.  
 Eureka, N. C.  
 Durham, N. C.  
 Summerville, S. C.  
 Liberty, N. C.  
 Liberty, S. C.  
 Jacksonville, Fla.  
 Luray, Va.  
 Romney, W. Va.  
 Aberdeen, N. C.  
 Muskegon, Mich.

Mitchell, Elizabeth Ann  
 Mobley, Ruth Zink  
 Moncure, Frances Daniel  
 Monroe, Edith Ellen  
 Moody, Frances  
 Moore, Marie Kesler  
 Moppert, Diane Fletcher  
 Morgan, Sara Ann  
 Moshoures, Lula Dorothy  
 Moss, Elsie Gertrude  
 Murray, Mary Alexander  
 Neighbour, Mary Frances  
 Odenkirchen, Doris Paula  
 Palmer, Clara Mae  
 Parker, Della Viola  
 Powell, Nannie Baker  
 Putnam, Elizabeth Jean  
 Quarmby, Mary Freda  
 Rearden, Helen Henrietta  
 Reed, Donna Hazel  
 Reese, Eva Oldham  
 Renn, Lydia Steele  
 Richards, Martha Frances  
 Roach, Patricia  
 Roy, Gloria Carmne  
 Rupp, Barbara Anna  
 Sandstrom, Oma Louise  
 Sawyer, Fay Iris  
 Schacter, Katherine Able  
 Schmidt, Suzanne  
 Shaw, Barbara Jane  
 Shorter, Frances Virginia  
 Sites, Patricia Elizabeth  
 Slaybaugh, Wanda Alice  
 Smart, Julie Marjorie  
 Smit, Elsa Eugenie  
 Smith, Evelyn Lorine  
 Smith, Pearl Brotzman  
 Spivey, Camilla Kate  
 Sprague, Barbara Preston  
 Stallings, Celie Mae  
 Stamper, Carolyn S.  
 Stephenson, Nancy Lee  
 Stone, Rowena Imogene  
 Taylor, Harriet  
 Travers, Margaret T.  
 Trent, Mary Biddle  
 True, Madeline Salchli  
 Wade, Wilma Frances  
 Waller, Betty Virginia  
 Ward, Lucile Curtis  
 Warren, Nancy Douglas  
 Weaver, Betty Lou  
 Wellman, Frances Lorene  
 Whitehead, Barry Bellinger  
 Wilbur, Jean Doremus  
 Williams, Mary Cornelia  
 Wilson, Edna May  
 Wilson, Ossie Rivers  
 Woodmansee, Thelma Marie  
 Zitner, Dona Waldhauer

Canton, N. C.  
 Portsmouth, Va.  
 Towson, Md.  
 Brohard, W. Va.  
 Rome, Ga.  
 Durham, N. C.  
 Durham, N. C.  
 Lakeland, Fla.  
 Myrtle Beach, S. C.  
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 Spartanburg, S. C.  
 Charleston, S. C.  
 Hickory, N. C.  
 Ellisville, Miss.  
 Warrenton, N. C.  
 Oil City, Pa.  
 Guelph, Ontario, Canada  
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 Durham, N. C.  
 Durham, N. C.  
 Columbus, Ga.  
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 Southampton, L. I., N. Y.  
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 Nutley, N. J.  
 Clifton Forge, Va.  
 Upper Tract, W. Va.  
 Lima, Ohio  
 Troy, Ala.  
 Lichtenburg, Transvaal, S. A.  
 Ahoskie, N. C.  
 Durham, N. C.  
 Fairmont, N. C.  
 New Bedford, Mass.  
 Bailey, N. C.  
 Arcadia, S. C.  
 Augusta, Ga.  
 Belpre, Ohio  
 Mobile, Ala.  
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 Parkersburg, W. Va.  
 Morehead City, N. C.  
 Durham, N. C.  
 Huntington, Tenn.  
 Durham, N. C.  
 Durham, N. C.  
 Morganton, N. C.  
 Durham, N. C.  
 Alexandria, Va.  
 McLeansville, N. C.  
 Hillsboro, N. C.  
 Oxford, N. C.  
 Bennington, Vt.  
 Durham, N. C.



## THE GRADUATE SCHOOL OF ARTS AND SCIENCES

## ACADEMIC YEAR 1948-1949

Abbot, William Wright, III A.B. (University of Georgia), History.	Louisville, Ga.
Adams, Martha Jean B.A. (Woman's College of the University of North Carolina), Romance Languages.	Winston-Salem, N. C.
Agouridis, Savos Christos Diploma (University of Athens), Religion.	Athens, Greece
Alfriend, Genevieve B.A. (Mary Washington College), Romance Languages.	Charles Town, W. Va.
Allen, William Richard B.A. (Cornell College, Iowa), Economics.	Chicago, Ill.
Anderson, Norman Gulack A.B. (Duke University), Zoology.	Minneapolis, Minn.
Anderson, Roy Stuart A.B. (Clark University); A.M. (Dartmouth College), Physics.	Agawam, Mass.
Andrews, Edwin Rudy B.A. (Wake Forest College), Religion.	Raleigh, N. C.
Austin, Tollie Edward, Jr. A.B. (Duke University), Education.	Portsmouth, Va.
Ball, Carroll Raybourne B.A., M.S. (University of Mississippi), Zoology.	Montrose, Miss.
Barfield, John Daniel A.B. (Mercer University), Psychology.	Macon, Ga.
Barger, Ben A.B. (George Washington University), Psychology.	Durham, N. C.
Barry, Richard Schriver A.B. (Franklin and Marshall College), History.	Brighton, Mass.
Basham, Janet Gray Brooks A.B. (Woman's College of the University of North Carolina), Psychology.	Greensboro, N. C.
Bass, Arnold Marvin B.S. (The College of the City of New York); A.M. (Duke University), Physics.	Forest Hills, L. I., N. Y.
Bass, Rosalyn J. Doren A.B. (Brooklyn College), Psychology.	New York, N. Y.
Bates, William Wannamaker, Jr. B.S. (The Citadel), Chemistry.	Camden, S. C.
Batson, Wade Thomas, Jr. B.S. (Furman University), Botany.	Marietta, S. C.
Battle, Guy Arthur, Jr. A.B., A.M. (Duke University), English.	Sumter, S. C.
Baucom, Clifford Randall M.A. (University of North Carolina), Education.	Durham, N. C.
Beatson, James Allen A.B., A.M. (Duke University), History.	Manning, S. C.
Bellamy, Virginia Nelle B.S. (East Tennessee State College), Religion.	La Follette, Tenn.
Benedict, Margaret Ann B.A. (Vassar College), Political Science.	Chevy Chase, Md.
Bennett, William Leffis B.A. (Wake Forest College), History.	Shalotte, N. C.
Berger, Suzanne Harding B.S. (George Washington University), Zoology.	Cobleskill, N. Y.

- |  |                        |
|--|------------------------|
| Bevan, John Morgan   | Plaines, Pa.           |
| A.B. (Franklin and Marshall College); B.D., A.M. (Duke University), Psychology.                    |                        |
| Birge, William Root  | Northampton, Mass.     |
| A.B. (Princeton University), Psychology.   |                        |
| Blossom, Thomas  | Charleston, S. C.      |
| A.B. (Amherst College); A.M. (Columbia University), History.                                       |                        |
| Boardman, William Kilbourne, III   | Atlanta, Ga.           |
| B.S. (University of South Carolina), Psychology.   |                        |
| Bond, Jean Bernerd   | Durham, N. C.          |
| A.B. (Duke University), Chemistry.   |                        |
| Bonnen, James Thomas   | College Station, Texas |
| B.A. (Texas A. and M. College), Economics.   |                        |
| Bormann, Frederick Herbert   | Westwood, N. J.        |
| B.S. (Rutgers University), Botany.   |                        |
| Bowles, Lester Ward  | Independence, Mo.      |
| A.B. (Central College); M.A. (Southern Methodist University), English.                             |                        |
| Bowles, Robert Clay  | Watson, W. Va.         |
| A.B. (Central College); M.A. (Southern Methodist University), History.                             |                        |
| Boyce, John Shaw, Jr.  | New Haven, Conn.       |
| B.S. (Yale University), Forestry.  |                        |
| Brackman, Jean   | Cincinnati, Ohio       |
| B.S. (Purdue University), Education.   |                        |
| Bramlette, Carl Allen, Jr.   | Laurens, S. C.         |
| B.S. (Presbyterian College), Clinical Psychology.  |                        |
| *Brasted, Howard Spencer   | Hornell, N. Y.         |
| B.A. (Hamilton College), Zoology.  |                        |
| Braverman, Howard  | Marietta, Ohio         |
| A.B. (Brooklyn College); A.M. (Duke University), History.  |                        |
| Brodhag, Alex Edgar, Jr.   | Charleston, W. Va.     |
| A.B. (Oberlin College), Chemistry.   |                        |
| *Brown, Olive Duncan   | Durham, N. C.          |
| B.S. (Woman's College of the University of North Carolina); M.A. (New York University), Education. |                        |
| Brown, Joshua Robert Calloway  | Durham, N. C.          |
| A.B. (Duke University), Zoology.   |                        |
| *Brownell, Kathryn K.  | Durham, N. C.          |
| A.B. (University of Illinois), English.  |                        |
| Brownell, Robert Foote, Jr.  | Jamestown, N. Y.       |
| B.A. (Williams College), Physics.  |                        |
| Bullock, Thomas Kirby  | Birmingham, Ala.       |
| A.B. (Duke University), History.   |                        |
| Bunn, Carolyn Cooper   | Dayton, Ohio           |
| B.S. (Duke University), Zoology.   |                        |
| Burkhalter, James Herbert  | Rome, Ga.              |
| A.B. (Emory University); M.S. (Georgia School of Technology), Physics.                             |                        |
| Burrus, John Tilden  | Johnson City, Tenn.    |
| B.A. (East Tennessee State College), Education.  |                        |
| Bussell, Wilsie Florence   | Durham, N. C.          |
| A.B., A.M. (Duke University), Romance Languages.   |                        |
| Byers, Gordon Cleaves  | Nancock, Mich.         |
| A.B. (University of Michigan), Mathematics.  |                        |
| Caffey, Michael David, Jr.   | Brown Summit, N. C.    |
| A.B. (Guilford College); M.A. (Teachers College, Columbia University), Psychology.                 |                        |

\* Special student.

- Cannon, William Maury, Jr. Sylacauga, Ala.  
A.B. (Birmingham-Southern College); A.M. (Duke University), Psychology.
- Canon, Alfred Orville, Jr. Memphis, Tenn.  
A.B. (Southwestern at Memphis), Political Science.
- Cansler, Dorothy Phillips Chapel Hill, N. C.  
A.B. (University of North Carolina), Religion.
- Carter, Robert LeRoy El Reno, Okla.  
B.S. (University of Oklahoma), Physics.
- Caskey, Ann Jourdan Wichita Falls, Texas  
B.A. (Randolph-Macon Woman's College), Political Science.
- Cato, Benjamin Ralph, Jr. Charlotte, N. C.  
A.B. (Duke University), Mathematics.
- \*Chait, Donald Carl Atlanta, Ga.  
A.B. (Duke University), Zoology.
- Cherry, Leonard Victor New York, N. Y.  
B.S. (The College of the City of New York), Chemistry.
- Chreitzberg, Augustus McKee, Jr. Spartanburg, S. C.  
B.S. (Wofford College), Chemistry.
- Christian, Dennis Cole, Jr. Durham, N. C.  
A.B., A.M. (Duke University), Education.
- Clark, William James, Jr. Homestead, Fla.  
B.S. (Wake Forest College), Psychology.
- Cobbs, Walter Herbert, Jr. Rockymount, Va.  
B.S. (Hampden-Sydney College), Chemistry.
- Cofresi, Emilio Mayaguez, P. R.  
B.A. (West Virginia University); M.A. (University of Illinois), Sociology.
- Cohn, David V. New York, N. Y.  
B.S. (The College of the City of New York), Biochemistry.
- Colvin, Ralph Whitmore Appleton, Wis.  
B.S. (Lawrence College), Psychology.
- Cook, Raymond Allen Harlem, Ga.  
A.B. (University of Georgia), English.
- Cooper, Charles Dewey Rome, Ga.  
B.S. (Berry College), Physics.
- Court, Alfred Henry, III Biloxi, Miss.  
A.B. (University of Chicago); A.M. (Stanford University), Political Science.
- Cox, Don Knowlton Reno, Nev.  
B.S. (University of Nevada), Botany.
- Creamer, Boyce Harry Anderson, S. C.  
A.B. (Furman University); Th.B. (God's Bible College); M.A. (University of Tennessee), Sociology.
- Cross, Carlyle Midville, Ga.  
A.B. (Mercer University); A.M. (Duke University), English.
- Crowell, Robert Merrill Canton, Ohio  
A.B., M.A. (Bowling Green University), Zoology.
- Cuculo, John Anthony Durham, N. C.  
B.S. in Chem. (Brown University), Chemistry.
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Townend, Fraser Thompson A.B. in Engr. (Cambridge University), Education.	Winchester, England
Truitt, Robert Wesley A.B. (Elon College), Physics.	Raleigh, N. C.
Troutman, William Fife, Jr. B.S. (Western Carolina Teachers College); A.M. (Duke University), Political Science.	Asheville, N. C.
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Wagner, Fred Reese A.B. (Duke University), English	Haddonfield, N. J.
Walker, Ernest Winfield B.B.A., M.B.A. (University of Mississippi), Economics.	Hattiesburg, Miss.
Walker, Thomas Banner B.A. (Tusculum College), Chemistry	Charleston, Tenn.
*Wallace, Malcolm Everett B.A., M.A. (University of Texas), Economics.	Raleigh, N. C.
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Walter, Eugene Victor B.A. (University of Miami), Political Science.	Miami Beach, Fla.
Walton, Wesley Wills B.S. (New Jersey State Normal School at Glassboro), Education.	Woodlynne, N. J.
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- Wethington, Lewis Elbert      Durham, N. C.  
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Ashe, Alex Elisha A.B. (Duke University), Education.	Sylva, N. C.
Aucoin, Leonore Frances B.Ph. (Loyola University of the South), Education.	New Orleans, La.
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Baker, Lula Evelyn A.B. (Winthrop College), English.	Pageland, S. C.
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Bates, William Wannamaker, Jr. B.S. (The Citadel), Chemistry.	Camden, S. C.
Battle, Guy Arthur, Jr. A.B., A.M. (Duke University), English.	Sumter, S. C.
Baucom, Clifford Randall A.B. in Ed., A.M. (University of North Carolina), Education.	Durham, N. C.
Baxter, Joseph Ray A.B. (Berea College); A.M. (Duke University), History.	Newport, Ky.
Beasley, James Edwin B.S. (Georgia Teachers College), Education.	Statesboro, Ga.
Beatson, James Allen A.B., A.M. (Duke University), History.	Manning, S. C.
Beery, Clara Reubel A.B. (Mary Baldwin College); B.S. (Madison College), English.	Washington, D. C.
Blackburn, Jacob Floyd A.B. (Lenoir-Rhyne College); A.M. (Duke University), Mathematics.	Newton, N. C.
Blancett, Rhea Morgan A.B. (West Liberty State College), Education.	New Martinsville, W. Va.
Blossom, Thomas A.B. (Amherst); A.M. (Columbia University), History.	Charleston, S. C.
Boggs, Doyle Willard B.S. (Presbyterian College), Education.	Darlington, S. C.
Bowers, Warren Brown B.S. (Emory and Henry College).	East Radford, Va.
Bowles, Robert Clay A.B. (Central College); A.M. (Southern Methodist University), History.	Watson, W. Va.

- Brantley, Mary Powell Raleigh, N. C.  
A.B. (Woman's College of the University of North Carolina); A.M. (Duke University), Sociology.
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A.B., A.M. (Duke University), Mathematics.
- Brown, Joshua Robert Calloway Durham, N. C.  
A.B. (Duke University), Zoology.
- Brown, Margaret June Miami, Fla.  
A.B. (University of Miami), English.
- Brownell, Kathryn K. Durham, N. C.  
A.B. (University of Illinois), English.
- Bryan, William Alfred Sumter, S. C.  
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- Bryant, Louise Smith Cabin Creek, W. Va.  
B.S. (Morris Harvey College), Education.
- Bryant, Samuel Roy Spencer, Va.  
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- Burnside, Dunklin Sullivan, Jr. Spartanburg, S. C.  
A.B. (Wofford College), Mathematics.
- Butcher, Jared Arthur Duncan Falls, Ohio  
A.B. (Glenville State Teachers College), Education.
- Butcher, Mary Bright Weston, W. Va.  
B.S. (West Virginia Wesleyan College), Mathematics.
- Cardwell, Annie Irene Lynchburg, Va.  
B.S. (State Teachers College, Radford, Va.), Education.
- Carter, Robert LeRoy El Reno, Okla.  
B.S. (University of Oklahoma), Physics.
- Caskey, Claire Omar Charlotte, N. C.  
B.S. (Appalachian State Teachers College); A.M. (Duke University), English.
- Chatfield, Margaret High Point, N. C.  
A.B. (Duke University), Education.
- Cherry, Leonard Victor New York, N. Y.  
B.S. (College of the City of New York), Chemistry.
- Chesler, James Robert Bedford, Va.  
A.B. (Butler University), English.
- Chreitzberg, Augustus McKee Spartanburg, S. C.  
B.S. (Wofford College), Chemistry.
- Clay, Leo Roderick Lynchburg, Va.  
A.B. (Lynchburg College); A.M. (Duke University), Psychology.
- Cobbs, Walter Herbert, Jr. Rockymount, Va.  
B.S. (Hampden-Sydney College), Chemistry.
- Cofresi, Emilio Mayoquez, P. R.  
A.B. (West Virginia University); A.M. (University of Illinois), Sociology.
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A.B., A.M. (Tulane University), English.
- Cooke, Cecil Edwards Durham, N. C.  
A.B., A.M. (Duke University), Education.
- Cooper, Charles Dewey Rome, Ga.  
B.S. (Berry College), Physics.
- Copeland, William LeRoy New York, N. Y.  
A.B. (Duke University), Economics.

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|--|-----------------------------------|
| Creamer, Boyce H.<br>A.B. (Furman University); Th.B. (God's Bible College); A.M. (University of Tennessee), Sociology. | Anderson, S. C.                   |
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| Davis, Marie<br>B.A. in Educ. (State Teachers College, Farmville, Va.), History.                                       | Smithfield, Va.                   |
| Dedmond, Francis Berniel<br>A.B. (Catawba College); Th.M. (The Southern Baptist Theological Seminary), English.        | Salisbury, N. C.                  |
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Harris, Rogert Leigh A.B., A.M. (University of Alabama), History.	Tuscaloosa, Ala.
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Harrison, Norwood C. B.A. (University of the South).	Spartanburg, S. C.
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 B.S. (Mary Washington College), Education. Orange, Va.
- MacKorell, Mary Bowers  
 A.B. (Randolph-Macon Woman's College), Religion. Charlotte, N. C.
- McCain, Paul Moffett  
 A.B. (Erskine College); A.M. (Duke University), History. Decatur, Ga.
- McCone, Henry Edgar  
 A.B. (Swarthmore College); A.M. (University of Pennsylvania), History. Hampden-Sydney, Va.
- McCallum, Sara Grey  
 B.S. (Southwestern at Memphis), Chemistry. Ripley, Tenn.
- McCormack, Pauline Jeanne Eagles  
 A.B. (Duke University), English. Fountain, N. C.
- McLain, Andrew Demetrius  
 B.S., M.S. (Alabama Polytechnic Institute), Education. Columbus, Ga.
- McMahon, Frances Elizabeth  
 A.B. in Ed. (Harris Teachers College), Education. St. Louis, Mo.

- Madison, Blaine Mark Raleigh, N. C.  
A.B. (High Point College); M.Ed. (Duke University), Education.
- Mahon, Mary Elizabeth Laurens, S. C.  
A.B. (Winthrop College), Spanish.
- Majors, Laurella Louise Ellwood City, Pa.  
B.A. (Geneva College), Spanish.
- Manlove, George Kendall Chagrin Falls, Ohio  
A.B., A.M. (Oberlin College), English.
- Martin, Montine Hilton, Ga.  
A.B. in Ed. (University of Georgia), Education.
- Martin, Thomas Leon Newport News, Va.  
A.B. (Duke University), Education.
- May, William Henry Durham, N. C.  
A.B., M.Ed. (Duke University), Education.
- Metz, Louis John Crawford, Colo.  
B.S. (University of Michigan); M.F. (Duke University), Forestry.
- Miller, William Long Nashville, Tenn.  
B.B.A. (University of Chattanooga); A.M. (Duke University), Economics.
- Mitchell, Frank Phipps Salisbury, Md.  
A.B. (Western Maryland College), English.
- Mitchell, Lester M. Johnstown, Pa.  
B.A. (Otterbein College); M.Ed. (Duke University), Education.
- Moffett, Robert Preyer Greensboro, N. C.  
B.S., A.M. (Duke University), Chemistry.
- Montgomery, Eddith Ruth Hogansville, Ga.  
A.B. (Georgia State College for Women), Education.
- Mordecai, Ellen Raleigh, N. C.  
A.B. (Duke University), English.
- Murphy, Lyle Johnson Clarksburg, Va.  
A.B. (Salem College), Education.
- Murray, Betty Lou Charleston, W. Va.  
A.B. (Duke University), Education.
- Myers, Richard Harold Broadway, Va.  
B.S. in Chemistry (University of Virginia), Chemistry.
- Najam, Edward William Durham, N. C.  
A.B. (Bowdoin College), Romance Languages.
- Nelson, Norman Kent West Palm Beach, Fla.  
A.B. (Duke University), English.
- Nichols, Bertha Versailles, Ky.  
A.B. (Western Kentucky State Teachers College); M.Ed. (Duke University), Education.
- Nispel, Benjamin Strickler York, Pa.  
B.S. in Ed. (Shippensburg, Pa., State Teachers College), Education.
- Noll, Robert Roscoe Charlotte, N. C.  
B.S. (Pennsylvania State College), Education.
- Norberg, Carl Gustav Lewisburg, W. Va.  
A.B. (Marshall College); M.Ed. (Duke University), Education.
- Oliver, Edgar Joseph Savannah, Ga.  
A.B. (Duke University), Psychology.
- Oppenheim, Stanley Robert Middletown, N. Y.  
A.B. (Drew University), History.
- Orange, Linwood Elden Cavetown, Md.  
A.B., A.M. (Duke University), English.

Paden, Erma Elizabeth A.B. (Westminster College), English.	Lowellville, Ohio
Parker, Louise Pierce A.B. (Duke University), English.	Rocky Mount, N. C.
Payne, Floyd Merle B.S. (Florida Southern College); M.Ed. (Duke University), Education.	Lake Placid, Fla.
Payne, Hura Harrison A.B. (Berea College); M.Ed. (Duke University), Education.	Frostburg, Md.
Peeler, Helen Elizabeth A.B. (Catawba College), Education.	Salisbury, N. C.
Pegram, Howard McIever A.B. (Wofford College), Mathematics.	Gaffney, S. C.
Perkins, Betty Sue A.B. (Georgia State College for Women), Romance Languages.	Mt. Zion, Ga.
Pigott, Otho Keith A.B. (Millsaps College); A.M. (Duke University), Economics.	Columbia, Miss.
Pittman, DeWitt Kennieth A.B., M.Ed. (Duke University), Education.	Laurinburg, N. C.
Pitzer, Gladys Estelle A.B. in Ed. (Shepherd College), Education.	Martinsburg, W. Va.
Pope, Beryl Wemyss B.S. (Georgia State College for Women), Mathematics.	Barwick, Ga.
Pope, Hilda Persons A.B. (Georgia State College for Women); A.M. (Duke University), Microbiology.	Griffin, Ga.
Porter, Bernard B.S. in Chem. (College of the City of New York), Chemistry.	Bronx, N. Y.
Potter, John Clarkson B.S. in Chem. (University of Washington), Chemistry.	Pleasant Garden, N. C.
Potter, Richard Austin B.S. (Rollins College), Chemistry.	Winter Park, Fla.
Powell, Lillie Mae A.B. (Carson-Newman College), History.	Kingsport, Tenn.
Powell, Woodrow Wilson B.S. (South Georgia Teachers College); A.M. (Duke University), English.	Register, Ga.
Price, James William B.S. (Virginia Polytechnic Institute), Education.	Stuart, Va.
Prichard, Howard Oscar B.S. (Howard College), History.	Alabama City, Ala.
Proctor, Jesse Harris, Jr. A.B. (Duke University), Political Science.	Durham, N. C.
Pruette, Rowland Shaw A.B. (Wake Forest College); B.D. (Duke University), Religion.	Wadesboro, N. C.
Purcell, James Slicer, Jr. A.B. (John Stetson University); A.M. (Duke University), English.	Lakeland, Fla.
Quarterman, Elsie A.B. (Georgia State Woman's College); A.M. (Duke University), Botany.	Ray City, Ga.
Ralston, Charles William B.S. (Colorado A. and M.); M.F. (Duke University), Forestry.	Miami Shores, Fla.
Reece, James Brady A.B. (The Johns Hopkins University), English.	Lenoir, N. C.
Reed, Frederick Venable A.B. (Hampden-Sydney College), Mathematics.	Crumpler, W. Va.



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|---|------------------------|
| Reid, Robert Harding<br>A.B. (Davidson College); A.M. (Duke University), History.   | Freidville, S. C.      |
| Reiser, John Shealy<br>B.S. (Georgia School of Technology), Chemistry.  | Augusta, Ga.           |
| Rentz, Thomas Eugene<br>A.B. (Duke University), Romance Languages.  | Columbus, Ga.          |
| Reznier, Elizabeth Lee<br>A.B. (Wellesley College), Spanish.  | Durham, N. C.          |
| Richter, Melissa Lewis<br>A.B. (Sarah Lawrence College), Biochemistry.  | White Plains, N. Y.    |
| Ring, Harold Francis<br>B.S. in Chem. Eng. (Massachusetts Institute of Technology), Physics.                                | Brighton, Mass.        |
| Rivers, Dorris Wilmer<br>B.S. (Mississippi Southern College); M.Ed. (Duke University), Education.                           | Philadelphia, Miss.    |
| Robinson, Boyd B.<br>A.B. (Lenoir-Rhyne College); M.Ed. (Duke University), Education.                                       | Maiden, N. C.          |
| Robinson, Margaret Eula<br>A.B. (Erskine College), English.   | Lancaster, S. C.       |
| Ross, William Dee, Jr.<br>A.B. (Millsaps College); A.M. (Duke University), Economics.                                       | Crystal Springs, Miss. |
| Rosinsky, Sophie Ann<br>A.B. (Villa Maria College), Education.  | Erie, Pa.              |
| Scherer, Betty Roszhart<br>B.Ed. (National College of Education), Education.  | Ottawa, Illinois       |
| Schmidt-Baumlner, Luise<br>A.B. (Swarthmore College), Zoology.  | New York, N. Y.        |
| Scott, Frank Alexander<br>A.B. (Duke University), Education.  | Roanoke, Va.           |
| Scott, Sammy Alan<br>B.S. in Educ. (State Teachers College, Farmville, Va.),  | Tazewell, Va.          |
| Seevers, Delmar Oswell<br>B.S. (Duke University), Physics.  | St. Johns, Kan.        |
| Shannon, Eleanor<br>B.A. (Blue Mountain College), Education.  | Shannon, Miss.         |
| Sharpe, Annie Lane (Mrs.)<br>B.S. in Ed. (Georgia State College for Women), Education.                                      | Rockyford, Ga.         |
| Silva, Joseph Andrew<br>B.S. (Northeastern University), Mathematics.  | Lexington, Mass.       |
| Sisson, James Edward<br>B.S. (Florence State Teachers College); B.S. in Ed., M.S. (Alabama Polytechnic Institute), English. | Vernon, Ala.           |
| Sloan, John Lindsay<br>B.S. (Presbyterian College); A.M. (Duke University), Mathematics.                                    | Clinton, S. C.         |
| Smith, Alexander Goudy<br>B.S. (Massachusetts Institute of Technology), Physics.  | Bluefield, W. Va.      |
| Smith, Cecil Clive<br>A.B. (University of North Carolina); A.M. (Duke University), Education.                               | Durham, N. C.          |
| Smith, DeWitt Talmadge<br>A.B. (Duke University), Education.  | Durham, N. C.          |
| Smith, Geneva Marie<br>A.B. (Woman's College of the University of North Carolina), Romance Languages.                       | Johnson City, Tenn.    |
| Smith, Theodore Carroll<br>B.S. (Memphis State College), Education.   | Memphis, Tenn.         |

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| Somers, Graham Watson<br>A.B. (Berea College), Education.   | Elkin, N. C.         |
| Sorrell, Robert Cooke<br>A.B. (Duke University), History.   | Durham, N. C.        |
| Southerland, Myra Azalene<br>A.B. (Eastern Carolina Teachers College); M.Ed. (Duke University), Education.    | Wilmington, N. C.    |
| Spear, Richard Southall<br>A.B. (Catawba College); M.Ed. (Duke University), Education.                        | Littlestown, Pa.     |
| Spencer, Stephen Marion, Jr.<br>B.S. (Wake Forest College); A.M. (Duke University), Mathematics.              | Wilmington, N. C.    |
| Spickard, Dorothy Ann<br>A.B. (Berea College), History.   | White Pine, Tenn.    |
| Stancik, Edwin Edward<br>B.S. (Duke University), Mathematics.   | Chicago, Ill.        |
| Stark, Lloyd William<br>A.B. (University of Kansas City); A.M. (Duke University), Mathematics.                | Wilson, N. C.        |
| Stealey, Helen Louise<br>A.B. (Fairmont State Teachers College), Education.                                   | Clarksburg, W. Va.   |
| Stinson, Edgar Franklin, Jr.<br>B.A., M.A. (East Texas State Teachers College), Chemistry.                    | Marshall, Texas      |
| Stockdale, Harry Foster<br>B.S. (Slippery Rock, Pa., State Teachers College), History.                        | DuBois, Pa.          |
| Stone, Edward<br>A.B., A.M. (University of Texas), English.   | Newark, N. Y.        |
| Story, Elwyn Glenn<br>A.B. (George Washington University), Psychology.  | Paris, Tenn.         |
| Sulzer, Richard Lee<br>A.B. (Duke University), Psychology.  | South Norwalk, Conn. |
| Swerlick, Isadore<br>A.B. (Temple University), Chemistry.   | Philadelphia, Pa.    |
| Tarleton, William Samuel<br>A.B., A.M. (Wake Forest College), History.  | Marshville, N. C.    |
| Tate, Margaret Clementine<br>B.S. (Furman University), Education.   | Pacolet Mills, S. C. |
| Taylor, Orville Walters<br>A.B. (Ouachita College); M.A. (University of Kentucky), History.                   | Little Rock, Ark.    |
| Teer, Thomas Walter<br>A.B. (University of North Carolina), English.  | Durham, N. C.        |
| Tects, Bruce Earle<br>A.B. (Fairmont State College); A.M. (West Virginia University), English.                | Terra Alta, W. Va.   |
| Tefft, Edna Marian<br>B.S. in Ed. (Ohio University), Education.   | Norwood, Ohio        |
| Thompson, Earle Crosland<br>A.B. (Union University), History.   | Plantersville, Miss. |
| Thompson, Francis Preston<br>B.S.C., A.M. (University of South Carolina); M.Ed. (Duke University), Education. | Coronaca, S. C.      |
| Thompson, Virginia Mary<br>A.B. (University of Alabama), History.   | Mobile, Ala.         |
| Thumm, Byron Ashley<br>B.S. (Morris Harvey College), Chemistry.   | Charleston, W. Va.   |
| Trice, Fred Monroe, Jr.<br>A.B. Catawba College), Psychology.   | Landis, N. C.        |

- Troutman, William Fife, Jr. Asheville, N. C.  
B.S. (Western Carolina Teachers College); A.M. (Duke University), Political Science.
- Unterberger, Robert Ruppe Jersey City, N. J.  
B.S. (Syracuse University), Physics.
- Urey, Esther Mae Grove City, Pa.  
A.B. (Grove City College), Spanish.
- Vinson, John Chalmers Athens, Ga.  
A.B. (Davidson College); A.M., M.F.A. (University of Georgia), History.
- Vonk, Paul Kenneth Grand Rapids, Mich.  
A.B. (Calvin College); A.M. (University of Michigan), Philosophy.
- Waggoner, Brooks Milton Stillwell, Okla.  
A.B. (University of Arkansas); B.D., A.M. (Duke University), Religion.
- Walter, Eugene Victor Miami Beach, Fla.  
A.B. (University of Miami), Political Science.
- Walters, Margaret Genevieve Galena, Md.  
A.B. (Washington College), Education.
- Ward, Mrs. Ellen Gunter Durham, N. C.  
A.B., A.M. (Duke University), English.
- Warlick, Raymond Aubrey, Jr. Lawndale, N. C.  
A.B. (High Point College), History.
- Warren, Eva Woosley Durham, N. C.  
A.B. (Woman's College of the University of North Carolina), Nursing Education.
- Weaver, Robert Lee Upper Darby, Pa.  
A.B. (Duke University), Economics.
- Weingartner, Russell Clarence Newport, Ky.  
A.B. (University of Cincinnati), French.
- Wesson, William Hinton, Jr. Warrenton, N. C.  
B.S. (North Carolina State College), Economics.
- Whitaker, Cornelia S. Alliance, Ohio  
B.A. (Mount Union College), French.
- Whitten, Katharine Pacolet, S. C.  
A.B. (Lander College), Psychology.
- Williams, M. J., Jr. Jackson, Miss.  
A.B. (Millsaps College); M.B.A. (University of Mississippi), Economics.
- Williams, Winona Winston-Salem, N. C.  
A.B. (Greensboro College); A.M. (Duke University), Education.
- Williamson, Paul Wendell Pikeville, Ky.  
A.B. (Berea College), Education.
- Willis, Hulon Sims Norman Park, Ga.  
A.B. (Piedmont College); A.B., A.M. (University of California), English.
- Woodress, James Leslie, Jr. Durham, N. C.  
A.B. (Amherst College); A.M. (New York University), English.
- Yeomans, Alice Virginia West Callingswood, N. J.  
B.S. (New Jersey State Normal School at Glassboro), Education.
- Young, Ida May Petersburg, Va.  
A.B. (Valparaiso); A.M. (University of Chicago), Education.
- Zunner, Thelma Butler Alligator, Miss.  
B.S. in Educ. (Mississippi Delta State Teachers College), Education.

**THE DIVINITY SCHOOL**  
**JUNIOR YEAR**

Alsbaugh, Carlton Gaither, Jr. A.B., High Point College, 1948.	Winston-Salem, N. C.
Anderson, James Harold A.B., Wake Forest College, 1946.	Mars Hill, N. C.
Andrews, James David B.S., University of North Carolina, 1947.	Goldsboro, N. C.
Antle, Ben Edward A.B., DePauw University, 1948.	Elkhart, Ind.
Austin, Harold Covington A.B., High Point College, 1948.	High Point, N. C.
Barlow, Hubert Lee A.B., Millsaps College, 1949.	Wesson, Miss.
Beane, Kenneth Eugene A.B., High Point College, 1948.	Siler City, N. C.
Burnside, Dunklin Sullivan, Jr. A.B., Wofford College, 1947.	Spartanburg, S. C.
Caldwell, Ralph Martin, Jr. B.S., Davidson College, 1948.	Spartanburg, S. C.
Carpenter, James Anderson A.B., Wofford College, 1948.	Shelby, N. C.
Casey, Joseph Howard A.B., Harvard College, 1948.	Lumberport, W. Va.
Chang, Timothy B.S., Fukien Christian University, 1946.	Fukien, Shaowu, China
Christenberry, Daniel K., Jr. B.S., Alabama Polytechnic Institute, 1941.	Stewart, Ala.
Crawley, Robert Pinckney B.A., University of North Carolina, 1948.	Statesville, N. C.
Davidson, Barney Lee B.S., West Texas State Teachers College, 1948.	Kelton, Tex.
Davis, Herman Fred A.B., Wofford College, 1948.	Carthage, N. C.
Dawsey, Cyrus Bassett A.B., Wofford College, 1949.	Madison, Fla.
Donahoe, Joseph Stephen A.B., Lynchburg College, 1947.	Onley, Va.
Edwards, Otis Carl, Jr. A.B., Centenary College, 1949.	Shreveport, La.
Esthus, Raymond Arthur A.B., Florida Southern College, 1948.	Sarasota, Fla.
Fogleman, Clarence Millard, Jr. A.B., Kansas Wesleyan University, 1948.	Burlington, N. C.
Gatlin, Curtis Robert B.S., Newberry College, 1946.	Newberry, S. C.
Golden, Jacob Bowles A.B., Lenoir-Rhyne College, 1948.	Hickory, N. C.
Groves, David Clayton A.B., Florida Southern College, 1948.	Jacksonville, Fla.
Henley, George Gray A.B., Hampden-Sydney College, 1948.	Flint Hill, Va.

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| House, Thomas Holmes<br>A.B., Evansville College, 1936.                | St. Pauls, N. C.    |
| Klein, Ernest Charles<br>A.B., Franklin and Marshall College, 1949.    | Cullman, Ala.       |
| Lightsey, Ralph<br>A.B., Mercer University, 1945.                      | Bristol, Ga.        |
| Little, Brooks Bivens<br>A.B., Duke University, 1941.                  | Durham, N. C.       |
| Lockhart, Joyce Gwendolyn<br>A.B., Berea College, 1948.                | Berea, Ky.          |
| Menerth, Edward Franklin<br>A.B., Duke University, 1948.               | Mountainside, N. J. |
| Mickey, John Speer<br>A.B., High Point College, 1947.                  | Mount Airy, N. C.   |
| Moore, Joseph Charles<br>A.B., Dickinson College, 1948.                | Mill Hall, Pa.      |
| Moore, Kenneth R.<br>A.B., High Point College, 1948.                   | Charlotte, N. C.    |
| Moore, Robert Freeman<br>A.B., Shepherd College, 1948.                 | Martinsburg, W. Va. |
| Moose, James Lois Walter<br>A.B., Wake Forest College, 1947.           | Statesville, N. C.  |
| Mote, John Anson<br>A.B., Western Maryland College, 1945.              | Redlands, Calif.    |
| Page, Ernest Dillard<br>A.B., High Point College, 1947.                | Greensboro, N. C.   |
| Park, Marvin Ross, Jr.<br>A.B., University of Alabama, 1946.           | Ralph, Ala.         |
| Payne, Don Aubrey<br>A.B., High Point College, 1945.                   | High Point, N. C.   |
| Pemberton, John, III<br>A.B., Princeton University, 1948.              | Cape May, N. J.     |
| Peters, Gervaise Francis<br>A.B., Ohio Wesleyan University, 1948.      | Ashville, Ohio      |
| Potts, Reginald Harrell<br>A.B., Lake Forest College (Ill.), 1948.     | Wilmette, Ill.      |
| Ramsey, Vernon Jerome<br>A.B., Catawba College, 1948.                  | Salisbury, N. C.    |
| Raper, Burkette<br>A.B., Duke University, 1947.                        | Middlesex, N. C.    |
| Sawyer, Thomas Benjamin<br>A.B., Duke University, 1938.                | Greensboro, N. C.   |
| Sherman, Willard Barton<br>A.B., Duke University, 1947.                | Leander, Tex.       |
| Smith, William Poole<br>A.B., Wake Forest College, 1946.               | Burlington, N. C.   |
| Speer, Jack Gordon<br>A.B., Morningside College, 1948.                 | Sioux City, Iowa    |
| Squires, Donal Morley<br>A.B., Fairmont State College, 1948.           | Fairmont, W. Va.    |
| Statler, Earl Gladish<br>A.B., Southeast Missouri State College, 1948. | Millersville, Mo.   |



Sutton, David Earl  
A.B., Duke University, 1948.

Swain, David Lowry  
A.B., Duke University, 1948.

Warren, George B.  
A.B., Duke University, 1948.

Welch, Malchus V.  
A.B., Elon College, 1947.

Williams, Clarence Daniel  
A.B., Davidson College, 1948.

Wilson, Alvin Austin  
A.B., University of North Carolina, 1947.

Wilson, Kelly Johnson, Jr.  
A.B., Duke University, 1948.

Winegeart, Jack Stroud  
A.B., Centenary College, 1948.

Woodruff, Robert Thomson, Jr.  
A.B., Carson-Newman College, 1948.

Youngblood, William Lee  
A.B., Millsaps College, 1948.

Durham, N. C.

Asheville, N. C.

Orlando, Fla.

Elon College, N. C.

Tatum, S. C.

Newton, N. C.

Carthage, Tenn.

Shreveport, La.

Jefferson City, Tenn.

Wesson, Miss.

## MIDDLE YEAR

Bedenbaugh, Kenneth Wilson  
B.S., Wofford College, 1940.

Blake, Frank William  
A.B., West Virginia Wesleyan, 1942.

Brown, James Collins Parker  
A.B., High Point College, 1948.

Burgess, Stanley Clyde  
A.B., Elon College, 1947.

Cansler, James Olin  
B.S., University of North Carolina, 1947.

Carlton, John William  
A.B., Baylor University, 1945.

Carroll, C. Edward  
A.B., University of Toledo, 1947.

Charlton, David Wayland, Jr.  
A.B., Randolph-Macon College, 1947.

Commander, Richard Thompson  
B.S., Alabama Polytechnic Institute, 1947.

Cook, Frank B.  
A.B., Vanderbilt University, 1947.

Crouse, Kenneth Dewey  
A.B., High Point College, 1943.

Davis, John Dixon  
A.B., Wake Forest College, 1947.

Donat, Ward Linn  
A.B., Upper Iowa University, 1947.

Fisher, Marion LeRoy, Jr.  
B.S., Defiance College, 1947.

Fitzgerald, Ernest A.  
A.B., Western Carolina Teachers College, 1946.

Chesterfield, S. C.

Milton, W. Va.

Lasker, N. C.

Courtland, Va.

Atlanta, Ga.

Corpus Christi, Tex.

Toledo, Ohio

Manteo, N. C.

Jacksonville, Fla.

Huntsville, Ala.

Lexington, N. C.

Beaufort, N. C.

Norfolk, Va.

Defiance, Ohio

Mocksville, N. C.

Grumbine, Robert A.B., Western Maryland College, 1947.	Baltimore, Md.
Hamilton, Harold Philip A.B., High Point College, 1947.	Thomasville, N. C.
Hurdle, Allen Lafayette A.B., Elon College, 1947.	Burlington, N. C.
Kinley, Grady Lee A.B., Wofford College, 1947.	Mebane, N. C.
Langrall, Edwin Hilmore A.B., Western Maryland College, 1947.	Washington, D. C.
McGlamery, Neal Vannoy B.S., Berry College, 1939.	Mt. Pleasant, N. C.
Mallary, Martha Bayne A.B., University of North Carolina, 1946.	Macon, Ga.
Mays, Harry Roy B.C.E., Clemson A. and M. College, 1947.	Columbia, S. C.
Merriman, William Richard A.B., Western Maryland College, 1947.	Frostburg, Md.
Miller, James Herbert, Jr. A.B., Duke University, 1947.	Elizabeth City, N. C.
Miller, Ralph A.B., West Virginia University, 1946.	Pewaukee, Wis.
Pearce, Arthur B., Jr. A.B., Asbury College, 1935.	Greensboro, N. C.
Register, Fred Page A.B., Elon College, 1947.	Sanford, N. C.
Reid, Dermont James A.B., Elon College, 1947.	Burlington, N. C.
Richardson, John Earl A.B., High Point College, 1948.	Eagle Springs, N. C.
Snyder, Walstein Welch A.B., Elon College, 1945.	Burlington, N. C.
Walton, William Carlisle, Jr. A.B., Maryville College, 1941.	Durham, N. C.
Warren, Clarence Lee A.B., High Point College, 1947.	Clinton, N. C.
Withrow, Carlos Quentin B.Th., Anderson College, 1947.	Charleston, W. Va.

## SENIOR YEAR

Babington, Wallace Kent A.B., Centenary College, 1946.	New Orleans, La.
Boggs, Clyde Stewart A.B., Kentucky Wesleyan College, 1930.	Durham, N. C.
Brown, Jarvis Padgham A.B., Trinity College, Hartford, 1943.	Portland, Ore.
Carroll, Kenneth Lane A.B., Duke University, 1946.	Easton, Md.
Dinas, Johnny Anastatious B.S., Mississippi State College, 1943.	Durant, Miss.
Duncan, Henry Clark A.B., Drury College, 1946.	Springfield, Mo.

- Epps, Ralph Isaac  
A.B., Wofford College, 1942.
- Farrell, Earl Thompson  
A.B., Elon College, 1944.
- Fellows, Norris London  
A.B., Drury College, 1946.
- Ford, Jesse Emerson, Jr.  
A.B., Wofford College, 1941.
- Forshee, James Woodrow  
A.B., Birmingham-Southern College, 1942.
- Frazier, John Thurman, Jr.  
A.B., Furman University, 1941.
- Glover, Murrell Keslo  
A.B., Bridgewater College, 1933.
- Gough, Louis Francis  
A.B., B.S., Anderson College and Theological Seminary, 1946.
- Griffin, Johnson Linwood  
A.B., Elon College, 1943.
- Hipps, Robert Haroldean  
A.B., High Point College, 1946.
- Hirschi, Carlton Frederick  
A.B., Allegheny College, 1945.
- Hook, Ray Price  
A.B., Wofford College, 1941.
- Hornbuckle, James P., Jr.  
A.B., Lenoir-Rhyne College, 1941.
- Horner, Thomas Marland  
A.B., Elon College, 1946.
- Hudnall, Michael Benjamin  
A.B., Clemson College, 1943.
- Huneycutt, Charles Jerome  
A.B., Appalachian State Teachers College, 1940.
- James, Howard Glenn  
A.B., Atlantic Christian College, 1944.
- Johnson, Joseph S.  
A.B., High Point College, 1944.
- Knight, Calvin S.  
A.B., Wake Forest College, 1945.
- Lanier, Hoyle Glenn  
A.B., High Point College, 1945.
- McCartt, James Spurgeon  
A.B., Tusculum College, 1947.
- Mattheiss, Theodore Henry, Jr.  
A.B., Johns Hopkins University, 1941.
- Morton, Vernon Adam  
A.B., High Point College, 1931.
- Murray, Jerry Dwight  
A.B., Duke University, 1946.
- Patten, Brooks  
A.B., University of North Carolina, 1939.
- Paylor, Earle Whitaker, Jr.  
A.B., University of South Carolina, 1945.
- Sumter, S. C.
- Pittsboro, N. C.
- Springfield, Mo.
- Marion, S. C.
- Sylacauga, Ala.
- Rock Hill, S. C.
- Accident, Md.
- High Point, N. C.
- Windsor, Va.
- Gastonia, N. C.
- Woodhaven, N. Y.
- Lexington, S. C.
- Stony Point, N. C.
- New Bern, N. C.
- Sumter, S. C.
- Morehead City, N. C.
- Winterville, N. C.
- Lake Junaluska, N. C.
- Leaksville, N. C.
- Lexington, N. C.
- Harriman, Tenn.
- Baltimore, Md.
- Jamestown, N. C.
- Charlotte, N. C.
- Louisburg, N. C.
- Danville, Va.

Porter, Joseph E. A.B., Duke University, 1942.	Durham, N. C.
Rowland, Ray Marion A.B., East Tennessee State College, 1943.	Jonesboro, Tenn.
Royal, James Peyton A.B., Wake Forest College, 1945.	Parkersburg, N. C.
Rucker, Driftwood Hayne A.B., Wofford College, 1943.	Cayce, S. C.
Scoggins, Eugene King A.B., Wofford College, 1944.	Olanda, S. C.
Siple, Clair Dwight A.B., Manchester College, 1946.	Argos, Ind.
Spivey, Wingate Bryant A.B., Furman University, 1944.	Simpsonville, S. C.
Turner, James Dixon A.B., Asbury College, 1945.	Reidsville, N. C.
VanHoy, William Ford, Jr. A.B., Guilford College, 1939.	Yadkinville, N. C.
Walton, Charles Harmon A.B., Randolph-Macon College, 1946.	Clifton Forge, Va.
Wells, William Miles, Jr. A.B., Duke University, 1945.	Wilson, N. C.

**CANDIDATES FOR THE DEGREE OF MASTER OF  
RELIGIOUS EDUCATION**

Bailey, Ruby May A.B., University of Chattanooga, 1931.	Charlotte, N. C.
Box, Hazel Melvin A.B., Greensboro College, 1947.	Aberdeen, N. C.
Brown, Charlotte Churchill A.B., High Point College, 1948.	Cranford, N. J.
Marrotte, Esther Pierce A.B., University of New Hampshire, 1947.	Brooklyn, Conn.
Swofford, Betty Hazel A.B., Greensboro College, 1948.	Walkertown, N. C.
Wang, Yien-pei A.B., Gingling College, 1929.	Nanchang, China

**SPECIAL STUDENTS**

Hundley, Maury, Jr. A.B., Lynchburg College, 1938.	Dunnsville, Va.
Hutchins, Charles Douglas	Norfolk, Va.
Ivie, William Kemp A.B., University of Oklahoma, 1931.	Durham, N. C.
Johnson, Emma Bryan A.B., Flora Macdonald College, 1937.	Clinton, N. C.
Taylor, Benjamin Eugene A.B., Atlantic Christian College, 1935; B.D., Vanderbilt University, 1946.	Durham, N. C.
Wang, Yao Ying A.B., University of Nanking, 1932.	Nanchang, China
Warren, Emily T.	Durham, N. C.

## SCHOOL OF LAW

## FIRST YEAR

Ailstock, James Walter, Jr. B.S., Virginia Polytechnic Institute, 1948.	Beckley, W. Va.
Allen, Carnot Richardson, Jr. B.S., Northwestern University, 1948.	Winnetka, Ill.
Altemus, Robert Charles University of North Carolina, 1944; University of Pittsburgh, 1946; Pennsylvania State College, 1946-1948.	Homer City, Pa.
Anthony, James Nicholas A.B., The Citadel, 1948.	Charleston, S. C.
Barfield, James Roy Duke University, 1946-1948.	Pikeville, N. C.
Bauer, Donald Ralph A.B., Michigan State College, 1948.	Wyandotte, Mich.
Bebout, Donald Richard Phoenix Junior College, 1946-1948.	Washington, Pa.
Berg, Edward Carl, III B.S., Yale University, 1948.	Wethersfield, Conn.
Bivins, William Otis, Jr. Virginia Polytechnic Institute, 1942-1946; West Virginia University, 1946-1947; Bluefield College, 1947; Concord College, 1947-1948.	Bluefield, W. Va.
Boddie, Mrs. Willie Grace Collins B.S., Farmville State Teachers College, 1943.	Durham, N. C.
Boggus, Van Buell University of Southern California, 1946-1948.	Los Angeles, Calif.
Bostwick, John Allen, Jr. A.B., Duke University, 1947.	Birmingham, Ala.
Browning, James Richardson A.B., Duke University, 1948.	Whiteville, N. C.
Caldwell, Robert Tate, Jr. A.B., Harvard College, 1947.	Ashland, Ky.
Cameron, William Duncan Duke University, 1946-1948.	Kinston, N. C.
Cammack, Allen Berriman, Jr. A.B., Duke University, 1948.	Burlington, N. C.
Chaffin, John Taylor College of William & Mary, 1946; Duke University, 1946-1948.	South Mills, N. C.
Chappell, Thomas Tye A.B., Duke University, 1947.	Plainfield, N. J.
Claycomb, Charles Percival, Jr. Western Kentucky State Teachers College, 1946-1948.	Webster, Ky.
Clement, Robert Lebby, Jr. A.B., The Citadel, 1948.	Charleston, S. C.
Cochran, Thomas Rodney A.B., Dartmouth College, 1947.	Sheldon, Iowa
Comer, Charles Alexander University of Chattanooga, 1946-1948.	Chattanooga, Tenn.
Cumberledge, George Buford College of Steubenville, 1946-1948.	Weirton, W. Va.



- deKruif, Jack Herbert  
Grand Rapids Junior College, 1939;  
Hope College, 1946;  
Michigan State College, 1947-1948. Grand Rapids, Mich.
- DeSantis, Samuel Mark  
A.B., Allegheny College, 1948. Meadville, Pa.
- DeYoe, Wood McKee  
A.B., Dartmouth College, 1947. Paterson, N. J.
- Dodge, Harold Thaddeus  
Champlain College, 1946-1948. Loudonville, N. Y.
- Douglas, Richard Sands  
A.B., Duke University, 1948. Westfield, N. J.
- Dufour, Alfred Edmondston  
A.B., The Citadel, 1948. Charleston, S. C.
- Eaves, George Washington, Jr.  
Duke University, 1946-1948. Henderson, N. C.
- Ellis, Michael Barton  
Belmont-Abbey Junior College, 1946-1948. Savannah, Ga.
- Ely, William Thomas  
Vanderbilt University, 1946;  
Murray State Teachers College, 1946-1948. Benton, Ky.
- Engelman, Morton Henry  
B.S., University of Connecticut, 1948. Middlebury, Conn.
- Everett, Ned Purvis  
B.S., Davidson College, 1948. Robersonville, N. C.
- Everingham, Bishop Skillman  
B.S., Linfield College, 1948. McMinnville, Ore.
- Fleming, James Carlton  
Duke University, 1945-1948. Martinsville, Va.
- Foss, George Bridges, Jr.  
Birmingham-Southern College, 1946-1948. Birmingham, Ala.
- Foster, Russell D.  
Bethany College, 1936-1937, 1947-1948. Cardale, Pa.
- Geoffroy, Roger Louis  
Ohio State University, 1943-1944;  
American International College, 1946-1948. Springfield, Mass.
- Gillis, Wellington Albert  
A.B., University of Alabama, 1946;  
M.A., Northwestern University, 1948. Malden, Mass.
- Gilman, John Bruce, Jr.  
A.B., Columbia University, 1948. White Plains, N. Y.
- Glenn, Donald Lyons  
A.B., Tusculum College, 1948. Lockport, N. Y.
- Glickfield, David  
East Tennessee State College, 1943-1947. Johnson City, Tenn.
- Godfrey, George Franklin  
B.S., Duke University, 1948. Jacksonville, Fla.
- Gore, Jay, Jr.  
A.B., University of Mississippi, 1948. Grenada, Miss.
- Gregg, James Russell  
A.B., State College of Washington, 1948. Pullman, Wash.
- Grist, William Taylor  
University of North Carolina, 1946-1947;  
Lenoir-Rhyne College, 1947-1948. Charlotte, N. C.

- Hall, Frank Dawson  
Duke University, 1945-1948.
- Hanlon, David Gordon  
Duke University, 1942-1943;  
Texas College of Mines, 1946-1947;  
Duke University, 1947-1948.
- Harlem, Arnold  
A.B., New York University, 1948.
- Harrington, John Allen  
Duke University, 1946-1948.
- Hawkins, James Robert  
Duke University, 1942-1943, 1946-1948.
- Henley, Eugene Patrick  
B.S., North Carolina State College, 1939.
- Herrick, John Waters  
Duke University, 1945-1948.
- Hiaasen, Kermit Odel  
A.B., Emory University, 1948.
- Hondulas, John Louis  
University of Tennessee, 1946-1948.
- Howe, Standish Sturtevant  
A.B., University of Michigan, 1948.
- Howe, William Bell White  
Duke University, 1945-1948.
- Hoyle, John William, III  
A.B., High Point College, 1947.
- Jack, Robert George  
Allegheny College, 1943-1944;  
Cumberland University, 1946;  
Ohio University, 1946-48.
- Johnson, Frederick Heppe, Jr.  
A.B., Muhlenberg College, 1948.
- Kanehann, William Nicholas  
A.B., Columbia University, 1946.
- Kistler, David Reeves  
Duke University, 1946-1948.
- Klein, Frederic Milton  
A.B., Tufts College, 1948.
- Knighton, Maurice Deal  
Junior College of Kansas City, 1940-1942;  
University of Kansas City, 1944, 1947-1948.
- Koski, Henry William  
A.B., Ohio Wesleyan University, 1947.
- Lacey, James Robert  
Duke University, 1945-1948.
- Lancaster, Purvis Talmadge  
A.B., High Point College, 1947.
- Larned, George Hambury  
A.B., Rutgers University, 1948.
- Leary, James Edward  
A.B., Duke University, 1948.
- Lee, John Lawrence  
Texas A. & M. College, 1933, 1937;  
Sul Ross State Teachers College, 1936.
- Coral Gables, Fla.
- Beaumont, Tex.
- Brooklyn, N. Y.
- Merry Oaks, N. C.
- Mebane, N. C.
- Durham, N. C.
- Jamestown, N. Y.
- Fort Lauderdale, Fla.
- Knoxville, Tenn.
- Port Huron, Mich.
- Hendersonville, N. C.
- Marion, N. C.
- Nelsonville, Ohio
- Allentown, Pa.
- Allentown, Pa.
- Durham, N. C.
- New Haven, Conn.
- Kansas City, Mo.
- Ashtabula, Ohio
- Newark, N. J.
- Winston-Salem, N. C.
- Rutherford, N. J.
- Jonesboro, Ark.
- Cameron, Tex.

- Loeser, Edward Arthur  
Knox College, 1946-1948.
- Long, Claude Homer  
Duke University, 1946-1948.
- Lynch, Luby Raeford, Jr.  
Duke University, 1943, 1946-1948.
- McCoy, John Philip  
Duke University, 1944-1945, 1947-1948.
- McDonald, Arthur Allen, Jr.  
A.B., University of North Carolina, 1947.
- McKinnon, Arnold Borden  
Duke University, 1944-1945, 1947-1948.
- Maroney, James Travis, Jr.  
North Texas State College, 1946, 1947.
- Martin, George Wilson  
Oak Ridge Military Institute, 1943-1945;  
Duke University, 1946-1948.
- Marx, Edward Elias  
A.B., Franklin and Marshall College, 1948.
- Mast, Everett Leo  
Appalachian State Teachers College, 1945-1946, 1947-1948.
- Matheny, Charles Henry  
A.B., High Point College, 1948.
- Millar, William Imber  
Duke University, 1945-1948.
- Mitrano, Daniel Charles  
Ph.B., Providence College, 1942.
- Morrow, George Richard  
West Virginia Institute of Technology, 1946-1948.
- Morton, Marion Billy  
Duke University, 1945-1948.
- Mulet, Guillermo L.  
A.B., Polytechnic Institute of Puerto Rico, 1944.
- Nazor, Gordon Lang  
Duke University, 1945-1948.
- Nichols, Frank David  
A.B., University of Michigan, 1948.
- Oakes, Luther Taylor  
A.B., Duke University, 1948.
- Olsen, Robert Wayne  
A.B., University of Michigan, 1948.
- Oppenheim, Alfred Martin  
University of Pennsylvania, 1942;  
Duke University, 1945-1948.
- Orr, George Eadie  
Duke University, 1946-1948.
- Osten, Henry Van Dyne  
A.B., Rollins College, 1948.
- O'Toole, Robert Joseph  
University of Connecticut, 1946-1948.
- Page, Robert Lionel  
B.S., Duke University, 1945.
- Galesburg, Ill.
- Astatula, Fla.
- Wilmington, N. C.
- Mount Pleasant, Tenn.
- Durham, N. C.
- Lumberton, N. C.
- Lufkin, Tex.
- Mocksville, N. C.
- New York, N. Y.
- Sugar Grove, N. C.
- Parkersburg, W. Va.
- Waynesville, N. C.
- North Easton, Mass.
- Forest City, N. C.
- Albemarle, N. C.
- Ciudad Trujillo, Republica Dominicana
- Ashtabula, Ohio
- Cleveland, Ohio
- Weldon, N. C.
- Sioux Falls, S. D.
- Westfield, N. J.
- Miami, Fla.
- Garden City, N. Y.
- Hamden, Conn.
- Erick, Okla.

- Patalano, John Anthony  
Susquehanna University, 1943;  
Tufts College, 1946-1947. Somerville, Mass.
- Perlis, Marvin Elliott  
B.S., New York University, 1948. Kew Gardens, L. I., N. Y.
- Perry, James Franklin  
Michigan, State College, 1947, 1948. Lansing, Mich.
- Phipps, James Gordon  
San Bernardino Valley Union Junior College, 1946-1948. San Bernardino, Calif.
- Pierce, John Everett, Jr.  
Duke University, 1944-1945;  
University of Florida, 1946-1948. Daytona Beach, Fla.
- Rabin, David  
B.S., Duke University, 1946. Carrboro, N. C.
- Redman, Charles Bryson  
A.B., Rice Institute, 1948. Kannapolis, N. C.
- Richman, Harold Morton  
Duke University, 1942-1943, 1946-1948. Newport News, Va.
- Rickman, William Millender  
Duke University, 1946-1948. Asheville, N. C.
- Rosenberg, Frederick Dietrick  
Hamilton College, 1946-1948. Binghamton, N. Y.
- Rosoff, Stanley Kermit  
College of the City of New York, 1943-1944;  
Syracuse University, 1947-1948. Bronx, N. Y.
- Rudersdorf, Ward James  
University of Wisconsin, 1941-1942;  
Central State Teachers College, 1946-1948. Waupaca, Wis.
- Russell, Howard Mills  
A.B., University of California at Los Angeles, 1948. Wilmington, N. C.
- Sands, George Lewis  
Duke University, 1941-1942, 1947-1948. Wilmington, Del.
- Scott, James Allen  
A.B., Duke University, 1947. Concord, N. C.
- Seltzer, Donald Miller  
B.S., North Carolina State College, 1948. Concord, N. C.
- Shell, Vernon Melvin  
A.B., Furman University, 1948. Greenville, S. C.
- Shelton, Thomas Austin  
Duke University, 1946-1948. Bat Cave, N. C.
- Simmons, Roy Glen  
A.B., Oberlin College, 1948. Manahawkin, N. J.
- Smith, DeWitt Talmadge  
A.B., Duke University, 1947. Durham, N. C.
- Smith, Milly Roberts  
Duke University, 1946-1948. Murfreesboro, Tenn.
- Smith, William Miller  
A.B., The Citadel, 1948. Charlotte, N. C.
- Spence, Charles Wilson  
Duke University, 1946-1948. Clayton, N. C.
- Stearns, Donald Mosure  
A.B., Otterbein College, 1948. Lima, Ohio
- Steed, Wilton Ernest  
A.B., Arkansas State Teachers College, 1948. Conway, Ark.

- Stevenson, William Hartin, Jr.  
 Prebyterian College, 1946-1948.
- Stout, Mrs. Lina Lee Spence  
 A.B., Meredith College, 1932.
- Styers, Robert Lee  
 A.B., Duke University, 1948.
- Surratt, John Richard  
 B.S., University of North Carolina, 1948.
- Switz, Alec Richard, Jr.  
 Defiance College, 1946-1948.
- Terry, Howard Chester  
 A.B., Duke University, 1947.
- Thomaides, Theodore George  
 A.B., Duke University, 1948.
- Thomasson, George Butler  
 B.S., Davidson College, 1948.
- Thomasson, James Toombs, Jr.  
 West Georgia College, 1940-1941, 1946-1948.
- Thorne, John Milton  
 Duke University, 1946-1948.
- Villanueva, Charles Edward  
 A.B., Duke University, 1948.
- Williamson, Edward Lorenza  
 B.S., Wake Forest College, 1947.
- Williamson, John Clark  
 Duke University, 1946-1948.
- Wilson, Junius Dean  
 Mars Hill Junior College, 1946-1948.
- Wright, James Victor  
 A.B., Duke University, 1948.
- Zwanetz, David  
 B.S., Temple University, 1948.
- Sumter, S. C.
- Durham, N. C.
- Winston-Salem, N. C.
- Winston-Salem, N. C.
- Old Mystic, Conn.
- Chicago, Ill.
- Washington, D. C.
- Kings Mountain, N. C.
- LaGrange, Ga.
- Durham, N. C.
- Orange, N. J.
- Cerro Gordo, N. C.
- Raleigh, N. C.
- Asheville, N. C.
- Java, Va.
- Philadelphia, Pa.

## SECOND YEAR

- Adams, Richard Ammon  
 A.B., Gettysburg College, 1941.
- Adams, William Hester, III  
 A.B., Duke University, 1947.
- Alexander, Arthur Lee  
 A.B., Duke University, 1947.
- Barbee, Charles Wesley, Jr.  
 A.B., Duke University, 1947.
- Baumgartner, Edgar Davidson  
 A.B., Duke University, 1947.
- Beltman, Laurence John  
 A.B., Hope College, 1946.
- Bittle, Claude Ehresmann  
 A.B., Duke University, 1948.
- Bivins, Stephen Thomas  
 A.B., Cornell University, 1947.
- Bobertz, William Arnold  
 B.S., Rutgers University, 1941;  
 A.B., Rutgers University, 1947.
- Pine Grove, Pa.
- Atlantic Beach, Fla.
- Lebanon, N. J.
- Durham, N. C.
- Hillburn, N. Y.
- Goldsboro, N. C.
- Madisonville, Ky.
- Milledgeville, Ga.
- Hillside, N. J.



Boone, William Gardner, Jr. A.B., Duke University, 1948.	Memphis, Tenn.
Bracnaro, James William A.B., Yale University, 1947.	Shelton, Conn.
Briggs, Ranauld Urton A.B., Duke University, 1947.	Dayton, Ohio
Brown, Bachman Storch, Jr. A.B., Duke University, 1947.	China Grove, N. C.
Butler, Paul Frederick A.B., Duke University, 1947.	Jacksonville, Fla.
Cameron, William Roy, Jr. Duke University, 1941-1942, 1946-1947.	Indiana, Pa.
Cate, James Gus, Jr. A.B., University of the South, 1947.	Cleveland, Tenn.
Clifford, Robert Lance A.B., Lehigh University, 1947.	Ramsey, N. J.
Clontz, Ralph Clayton, Jr. B.S., Davidson College, 1947.	Charlotte, N. C.
Cole, Winslow Warren, Jr. B.S., Miami University, 1947.	Daytona Beach, Fla.
Coleman, John James, Jr. A.B., Duke University, 1947.	Birmingham, Ala.
Collister, Cameron A.B., University of Pennsylvania, 1947.	Parma Heights, Ohio
Cross, Ray Y. A.B., Duke University, 1947.	Albany, Ga.
Dooley, Lawrence Mermier A.B., The Citadel, 1947.	New Haven, Conn.
Fraser, Donald Henderson A.B., Wofford College, 1947.	Walterboro, S. C.
Free, Edgar Dauphin A.B., Haverford College, 1944; University of Pennsylvania Law School, 1946-1947.	Philadelphia, Pa.
Fullerton, Bushnell A.B., Bucknell University, 1947.	Barrington, Ill.
Gardner, Robert Randolph A.B., Duke University, 1947.	Columbia, Tenn.
Gray, Arbor William University of Utah, 1940-1942; Duke University, 1946-1947.	Salt Lake City, Utah
Griffin, Charles Franklin B.S., University of North Carolina, 1947.	Monroe, N. C.
Grogan, Roy Joe North Texas Agricultural College, 1943-1944; Weatherford College, 1944, 1946-1947.	Weatherford, Tex.
Gwyn, Allen Hatchett, Jr. A.B., Duke University, 1947.	Reidsville, N. C.
Hadlow, Earl Bryce A.B., Duke University, 1947.	Greenville, S. C.
Hamlin, Guy Andrews University of Vermont, 1941-1943, 1946-1947.	Brushton, N. Y.
Hart, Thomas George, Jr. A.B., Duke University, 1947.	West Hartford, Conn.

- Hodson, Thomas Sherwood, III  
Duke University, 1944-1945, 1947;  
University of North Carolina, 1946. Hendersonville, N. C.
- Holley, Charles Richard  
A.B., Duke University, 1948. Ocala, Fla.
- Holloman, Charles Robert  
B.S., Western Carolina State Teachers College, 1939. Kinston, N. C.
- Holloway, Fuller  
Duke University, 1928-1929, 1946-1947. Durham, N. C.
- Hunter, Wallace Kilborne  
A.B., Muhlenberg College, 1947. Moravia, N. Y.
- Hutchins, Lawrence Edgar  
B.S., University of North Carolina, 1943. Yadkinville, N. C.
- Johnson, Russell Helge  
B.S., University of Wisconsin, 1944. LaCrosse, Wis.
- Knudsen, Arthur Knute, Jr.  
Michigan State College, 1943-1944, 1946-1947. Lansing, Mich.
- Lawton, Thomas Oregon, Jr.  
A.B., Duke University, 1947. Fairfax, S. C.
- Lee, Hugh Alfred  
A.B., University of North Carolina, 1947. Marion, N. C.
- Lim, Kwan Hi  
University of Hawaii, 1940-1942, 1944-1946;  
Boston College Law School, 1947-1948. Honolulu, Hawaii
- Lloyd, Robert Blackwell, Jr.  
A.B., Harvard University, 1947. Greensboro, N. C.
- Lurie, Herbert Manning  
A.B., Dartmouth College, 1946. Pittsburgh, Pa.
- McClain, Oren Walsh  
A.B., Otterbein College, 1947. Middletown, Ohio
- Marks, Edwin Robert  
A.B., Bucknell University, 1947. Danville, Pa.
- Marlowe, Rufus Edward  
A.B., Duke University, 1940. Atlanta, Ga.
- Mason, Walter Harrison  
A.B., Duke University, 1947. Pittsburgh, Pa.
- Max, Henry Leo  
A.B., Marshall College, 1937. Huntington, W. Va.
- Merritt, Davis Reid  
North Georgia College, 1943-1944;  
University of Georgia, 1946-1948;  
University of Georgia Law School, 1947-1948. Buford, Ga.
- Mervine, William David  
A.B., Williams College, 1942. Phoenixville, Pa.
- Osborne, Wallace Sherrill  
Clemson A. & M. College, 1942-1943;  
Clarion State Teachers College, 1943;  
Duke University, 1945-1947. Charlotte, N. C.
- Page, Fred Charles  
Duke University, 1945-1947. Shenandoah, Pa.
- Page, John Thomas, Jr.  
B.S., Wake Forest College, 1947. Rockingham, N. C.
- Patterson, William Robert  
A.B., Lenoir-Rhyne College, 1947. Hickory, N. C.

- Pavey, Charles Robert  
B.S., University of Illinois, 1942.
- Philipp, Albert Ernest, Jr.  
A.B., Duke University, 1948.
- Pingree, Hedley Gordon  
A.B., University of New Hampshire, 1948.
- Pino, Daniel Richard  
A.B., Syracuse University, 1947.
- Poteat, Thomas Lawton  
A.B., Duke University, 1947.
- Potter, Robert Daniel  
A.B., Duke University, 1947.
- Reams, Hugh Etherton  
A.B., Washington and Lee University, 1947;  
Washington and Lee Law School, 1947-1948.
- Routh, John Webb  
B.E., Yale University, 1947.
- Rutledge, Jean Ann  
A.B., Indiana University, 1947.
- Shannon, Charles Melvin, Jr.  
A.B., Duke University, 1947.
- Shields, Luther Perry  
Duke University, 1945-1947.
- St. Clair, Clifford Meade  
A.B., Pennsylvania State College, 1947.
- Stokes, Robert Fraser, Jr.  
B.S., Pennsylvania State College, 1947.
- Stormes, Ben F.  
A.B., Ohio University, 1947.
- Suddard, Oliver Vincent  
A.B., Duke University, 1947.
- Sugg, Joseph Leo  
A.B., Duke University, 1947.
- Vann, Arthur  
A.B., Duke University, 1947.
- Vannoy, Wade Eugene, Jr.  
B.S., Wake Forest College, 1947.
- Vick, Annie Sue  
A.B., Greensboro College, 1946.
- Wachenfeld, William Thomas  
A.B., Tufts College, 1947.
- Wagner, Franklin Porter  
B.S., Bucknell University, 1947.
- Walker, Harry Clayton  
Duke University, 1945-1947.
- Watson, William Wood  
A.B., Duke University, 1947.
- Wellman, John Wilson  
Duke University, 1946, 1947.
- West, James Arthur, Jr.  
B.S., Wake Forest College, 1947.
- Whitehead, Robert Clifton, Jr.  
Duke University, 1941-1942, 1946-1947.
- Lawrenceville, Ill.
- Bogota, N. J.
- Great Neck, L. I., N. Y.
- Long Island, N. Y.
- New York, N. Y.
- Wilmington, N. C.
- Toledo, Ohio
- Bronxville, N. Y.
- Washington, D. C.
- Mount Jackson, Va.
- Maryville, Tenn.
- Johnstown, Pa.
- Clairton, Pa.
- Akron, Ohio
- Newark, Del.
- Durham, N. C.
- Dunn, N. C.
- West Jefferson, N. C.
- Denton, N. C.
- Orange, N. J.
- Danville, Pa.
- Greenville, S. C.
- Eastham, Mass.
- Wilkesboro, N. C.
- Wilmington, N. C.
- San Antonio, Tex.

Williams, Daniel McGregor, Jr. A.B., Duke University, 1948.	Durham, N. C.
Wilson, Nathan Hughes Duke University, 1945-1947.	Charlotte, N. C.
Winders, William Rudolph A.B., Duke University, 1947.	Bristol, Tenn.
Wolfe, James Boyd, Jr. A.B., Duke University, 1947.	Greensboro, N. C.
Zinn, Charles Andrew A.B., Duke University, 1942.	Altoona, Pa.

## THIRD YEAR

Allen, Louis Carr, Jr. A.B., Duke University, 1945.	Burlington, N. C.
Bader, William Allen A.B., Syracuse University, 1940.	Bridgeport, Conn.
Beaman, Nathaniel, III A.B., Duke University, 1945.	Norfolk, Va.
Benedetti, Francis Anthony Duke University, 1943-1946.	Washington, D. C.
Benson, Clifford Charles B.S., University of Idaho, 1943.	Seattle, Wash.
Blanchard, Charles Fuller A.B., Duke University, 1947.	Raleigh, N. C.
Boone, Edwin Eugene, Jr. B.S., University of North Carolina, 1944.	Greensboro, N. C.
Borst, Alan Wills A.B., Yale University, 1944.	White Plains, N. Y.
Bouldin, Joseph Edmunds A.B., University of North Carolina, 1941.	Oxford, N. C.
Butz, Walter Heter Bowling Green State University, 1941-1943, 1945-1946.	Bellevue, Ohio
Clodfelter, Robert Franklin Mars Hill Junior College, 1941-1943; Villanova College, 1944.	Greensboro, N. C.
Cobb, Nelson Jacob Kent State University, 1944-1946.	Akron, Ohio
Daugherty, Duncan Wilmer, Jr. Louisiana State University, 1942; Marshall College, 1942-1943; West Virginia University, 1945-1946.	Huntington, W. Va.
Dozier, Riley Clarence, Jr. A.B., Duke University, 1948.	South Mills, N. C.
Eddy, Arthur Crowell A.B., Whittier College, 1946.	National City, Calif.
Farrer, William Cameron A.B., University of California at Los Angeles, 1946; Northwestern University Law School, Summer, 1946; Stanford University Law School, 1946-1948; University of Colorado Law School, Summer, 1948.	Los Angeles, Calif.
Gantt, Samuel Fox A.B., Duke University, 1947.	Durham, N. C.
Goldberg, Robert Abraham A.B., Duke University, 1940.	North Conway, N. H.
Griffith, Brantley Boyd A.B., Duke University, 1947.	Lebanon, Va.

- Hicks, Claude Thomas  
A.B., Wake Forest College, 1946;  
Wake Forest College Law School, 1946-1947.
- Holt, Duncan Waldo, Jr.  
A.B., Duke University, 1946.
- Howard, James Arthur  
A.B., University of North Carolina, 1941.
- Jones, Marvin Douglas  
A.B., Berea College, 1942.
- Kupp, Elaine Beatrice  
A.B., Duke University, 1947.
- Kusturiss, Michael Emanuel  
University of Pittsburgh, 1942-1943;  
Bucknell University, 1943-1944;  
Duke University, 1944-1945.
- Leaming, William VanDeventer  
A.B., State University of Iowa, 1946;  
M.A., State University of Iowa, 1946;  
University of Iowa College of Law, 1946-1947.
- Logan, Ben Harrison, Jr.  
A.B., University of Akron, 1939.
- Lowry, William John  
A.B., Duke University, 1947.
- Maynard, Frederick Charles, Jr.  
A.B., Wesleyan University, 1946.
- Moppert, Edward Joseph, Jr.  
A.B., Duke University, 1946.
- Moy, Cornelius Bernard, Jr.  
A.B., Marietta College, 1946.
- Owens, Hollis Monroe, Jr.  
A.B., Wofford College, 1943.
- Pagani, Louis Paul  
B.B.A., Manhattan College, 1943.
- Page, Allen Perley, Jr.  
A.B., Duke University, 1947.
- Parker, Benjamin Joseph  
A.B., Duke University, 1946.
- Pearce, Alden Gray  
A.B., University of California at Los Angeles, 1946.
- Rowley, Robert Batcheller  
A.B., Middlebury College, 1946.
- Sears, Leila  
A.B., Radcliffe College, 1943.
- Shoemaker, Franklin Reynolds  
A.B., Duke University, 1947.
- Smith, Sidney William, Jr.  
A.B., Duke University, 1946.
- Speth, Charles Theodore  
A.B., Duke University, 1944.
- Stephen, James Barnett  
A.B., University of South Carolina, 1945.
- Taylor, David Kerr  
A.B., Duke University, 1947.
- Welton, Robert Glenn  
A.B., Duke University, 1944.
- Pinnacle, N. C.
- Greensboro, N. C.
- Norfolk, Va.
- Paintsville, Ky.
- Depew, N. Y.
- Canonsburg, Pa.
- Newton, Iowa
- Akron, Ohio
- East Cleveland, Ohio
- New Haven, Conn.
- Cranford, N. J.
- Easton, Pa.
- Avondale, N. C.
- Bronx, N. Y.
- Williamsport, Pa.
- Hamden, Conn.
- Sherman Oaks, Calif.
- Newton Centre, Mass.
- Wayland, Mass.
- Knoxville, Tenn.
- Atlanta, Ga.
- South Temple, Pa.
- Pacolet, S. C.
- Oxford, N. C.
- Ellwood City, Pa.



- Whitener, Joe Park  
Lenoir-Rhyne College, 1942-1943;  
North Carolina State College, 1943-1944;  
New York University, 1944-1945.
- Whitman, Elkins Oliphant  
Memphis State College, 1940-1941;  
Bucknell University, 1943-1944.
- Williams, Silas, Jr.  
A.B., University of the South, 1945.
- Wolff, Robert Stanley  
A.B., Duke University, 1947.
- Yelverton, Calvin Robert, Jr.  
Atlantic Christian College, 1940-1941;  
Duke University, 1941-1943.
- Hickory, N. C.
- Columbus, Miss.
- Chattanooga, Tenn.
- Rhodesdale, Md.
- Fremont, N. C.
- UNCLASSIFIED**
- Carden, Julius Garland, Jr.  
B.S., University of North Carolina, 1944;  
LL.B., Duke University, 1948.
- Ferree, Max Fulton  
Duke University, 1941-1943;  
LL.B., Duke University, 1948.
- Frantz, Laurent Brown  
A.B., University of Tennessee, 1932;  
LL.B., University of Tennessee, 1935.
- Lee, Lawrence Frederick, Jr.  
Yale University, 1940-1941;  
Duke University, 1946-1948.
- Leuthold, Richard Albert  
A.B., Duke University, 1943;  
LL.B., Duke University, 1948.
- Walter, Eugene Victor  
A.B., University of Miami, 1947.
- Durham, N. C.
- Winston-Salem, N. C.
- Durham, N. C.
- Jacksonville, Fla.
- Warren, Pa.
- Miami Beach, Fla.
- GRADUATE**
- Daniels, James Burton  
B.S., University of Denver, 1948;  
LL.B., University of Denver, 1948.
- Fuller, Manley Kearns  
A.B., Duke University, 1947;  
LL.B., Duke University, 1948.
- Herbert, Bueford Gilbert  
University of Louisville, 1942-1943;  
Emory University, 1943-1944;  
Duke University, 1944;  
University of Colorado, 1945;  
Oklahoma A. & M., 1945;  
LL.B., University of Louisville, 1948.
- Johnson, Benjamin Franklin, Jr.  
A.B., University of Georgia, 1937.  
J.D., Emory University, 1939.
- Lemmon, William James  
University of Florida, 1942-1943;  
Newark College of Engineering, 1943-1944;  
LL.B., University of Florida, 1948.
- Levy, Ralph Victor  
A.B., University of Georgia, 1938;  
LL.B., University of Georgia, 1940.
- North, John Edward  
Creighton University, 1943, 1946;  
Peru State Teachers College, 1943-1944;  
LL.B., Creighton University, 1948.
- Monmouth, Ore.
- Laurinburg, N. C.
- Louisville, Ky.
- Daytona Beach, Fla.
- Miami, Fla.
- Augusta, Ga.
- Omaha, Neb.

Stanford, William Henry, Jr. A.B., Mercer University, 1947; LL.B., Mercer University, 1948.	Valdosta, Ga.
Strickland, Marion Ortez B.S., Alabama Polytechnic Institute, 1946; LL.B., Mercer University, 1948.	Vidalia, Ga.
Thomas, Earl Castleman University of Louisville, 1940-1943; LL.B., University of Louisville, 1948.	Louisville, Ky.

## SCHOOL OF MEDICINE

## FIRST YEAR

Marshal Edward Agner..... <i>Lenoir-Rhyne College.</i>	Spencer, N. C.
Lawrence Melton Alexander..... <i>Duke University.</i>	Lexington, N. C.
Franklin Edward Altany..... <i>St. Vincent College;</i> <i>University of Mississippi;</i> <i>St. Vincent College.</i>	Brackenridge, Pa.
George Frederick Alter..... <i>The Ohio State University;</i> <i>University of Toledo.</i>	Toledo, Ohio
William Henry Anderson, Jr..... <i>Presbyterian College.</i>	West Point, Ga.
William Benjamin Ardrey, III..... <i>The Citadel.</i>	Fort Mill, S. C.
Kenneth Rone Baldwin..... <i>Duke University.</i>	Whiteville, N. C.
Joe Jackson Bethany, Jr..... <i>Castle Heights Military Academy;</i> <i>University of Alabama.</i>	Boligee, Ala.
James Lamar Bowen..... <i>Duke University.</i>	Westminster, S. C.
Richard Morgan Bowles..... <i>Duke University.</i>	Garden City, L. I., N. Y.
Phillip Brass..... <i>N. Y. University;</i> <i>Seton Hall College.</i>	Newark, N. J.
Spencer Spainhour Brewer, Jr..... <i>The Citadel;</i> <i>University of Georgia.</i>	Atlanta, Ga.
Henry Lucius Burks..... <i>University of Texas.</i>	Tyler, Texas
Robert Edward Chambers..... <i>University of Oklahoma.</i>	Oklahoma City, Okla.
William Crockett Cheers, Jr..... <i>Duke University.</i>	Charlotte, N. C.
Beryman Edward Coggeshall, Jr..... <i>Duke University.</i>	Darlington, S. C.
Frank Benton Cooper..... <i>Davidson College;</i> <i>University of North Carolina.</i>	Statesville, N. C.
Joseph Durham Corpening..... <i>University of North Carolina.</i>	Granite Falls, N. C.

- Howard Louis Cox.....Jonesboro, N. C.  
*Wake Forest College;*  
*Duke University.*
- Clifton Davenport.....Durham, N. C.  
*Trinity College, Duke University.*
- Noble Jonathan David.....Jacksonville, Fla.  
*Duke University.*
- Norman William Davidson.....Baltimore, Md.  
*Franklin & Marshall College.*
- William David Davidson.....Los Angeles, Calif.  
*University of Arizona;*  
*Duke University.*
- Joe Walton Frazer, Jr.....Charlotte, N. C.  
*Clemson College.*
- Mary Frances Futrell.....Cadiz, Ky.  
*Peabody College;*  
*University of Kentucky.*
- Spencer Roberts Garrett.....Columbus, Ga.  
*Alabama Polytechnic Institute;*  
*University of Miami.*
- Alphonse Charles Gomez.....La Paz, Bolivia, S. A.  
*College of La Salle;*  
*Dakota Wesleyan University;*  
*St. Louis University.*
- Harvey Polhemus Graham.....Pearl River, N. Y.  
*Duke University.*
- Frederick Cooper Hamilton.....Morehead City, N. C.  
*Brevard College;*  
*Oak Ridge Military Institute;*  
*University of North Carolina.*
- Ambrose Gonzales Hampton, Jr.....Raleigh, N. C.  
*The Citadel;*  
*N. C. State College;*  
*The Citadel.*
- James Phillip Hartley.....Miami, Fla.  
*N. C. State College;*  
*University of Florida.*
- Wallace Weston Harvey, Jr.....Wake Forest, N. C.  
*Wake Forest College.*
- Garrett Arthur Hataway.....Athens, Texas  
*Louisiana Polytech;*  
*University of Texas.*
- Elizabeth Claire Jackson.....Portland, Ore.  
*Duke University.*
- Robert Vernon Jeter.....Raleigh, N. C.  
*N. C. State College;*  
*Duke University.*
- William Bailey Jones.....Mobile, Ala.  
*Massachusetts Institute of Tech;*  
*Duke University.*
- Thomas Victor Kaicher.....Brooklyn, N. Y.  
*Holy Cross College;*  
*Fordham University.*
- James Kawchak.....Johnstown, Pa.  
*Duke University.*
- Ruth Kimmelstiel.....Charlotte, N. C.  
*Randolph-Macon College.*

- Jack Kindler.....Passaic, N. J.  
*Duke University.*
- Thomas Ellison Langley.....Greenville, N. C.  
*East Carolina Teachers College;*  
*Wake Forest College.*
- Robert Jeffrey Link.....Uniontown, Pa.  
*Bethany College.*
- Herbert Lourie.....St. George, S. C.  
*University of South Carolina.*
- Frank Bell Magill.....Shanghai, China  
*Virginia Polytechnic Institute;*  
*University of Illinois.*
- Nicholas Peter Mandanis.....Spartanburg, S. C.  
*University of Athens;*  
*Wofford College.*
- Gerard Marder.....Asheville, N. C.  
*Biltmore Junior College;*  
*University of North Carolina.*
- Michael Alvin McCall.....Marion, N. C.  
*Vanderbilt University;*  
*N. C. State College;*  
*U. N. C. Extension;*  
*Vanderbilt University.*
- Ben Pushmataha McCarley.....McAlester, Okla.  
*Southern Methodist University.*
- Eugene McClung.....Beckley, W. Va.  
*Concord College;*  
*Duke University.*
- George Wright Meyer.....Chapel Hill, N. C.  
*University of North Carolina.*
- Marilyn Jean Michaels.....Gadsden, Ala.  
*Duke University.*
- William Alton Moody.....Rockingham, N. C.  
*Clarion State Teachers College;*  
*Wake Forest College.*
- de Saussure Parker Moore, Jr.....Kingstree, S. C.  
*University of North Carolina.*
- Francis Albert Morris, Jr.....Beaumont, Texas  
*University of Texas.*
- Helen Josephine Elizabeth Mott.....Miles City, Mont.  
*Custer County Junior College;*  
*Montana State College.*
- James Albert Paar.....Warren, Ohio  
*Duke University.*
- Charles Wilbur Park.....Columbus, Ohio  
*Mount Union;*  
*Kent State.*  
*Ohio State.*
- John Ray Pryor.....Mayfield, Ky.  
*University of Louisville;*  
*University of Kentucky.*
- Clark Grant Reed.....San Jose, Calif.  
*San Jose State College.*
- Oscar McNaughton Reinmuth.....Austin, Texas  
*University of Texas.*
- Allen Jack Savitt.....Ansonia, Conn.  
*Duke University.*

- Lewis Shapiro.....Great Neck, N. Y.  
*Duke University.*
- Max Verne Skeen.....High Rock, N. C.  
*Princeton University.*
- George Bryan Smtih, Jr.....Greenville, S. C.  
*Duke University.*
- Joseph James Lawton Smith.....Greenville, S. C.  
*Furman University;*  
*Emory University.*
- Henry Martin Spencer.....Winton, N. C.  
*College of William and Mary.*
- Clarence Ernest Stennett.....Princeton, W. Va.  
*Concord College.*
- Edgar Bethea Stewart.....Laurinburg, N. C.  
*The Citadel;*  
*University of North Carolina.*
- Naim George Tahan.....Tucson, Ariz.  
*University of Iowa;*  
*University of Arizona.*
- John Dixon Wallace, Jr.....Charlotte, N. C.  
*Duke University;*  
*Alabama Polytechnic Institute;*  
*University of Kentucky.*
- Bernard Arthur Wansker.....Athens, Ga.  
*Duke University.*
- Donald Eugene Warren.....Lakeland, Fla.  
*Florida Southern College;*  
*Washington and Lee University.*
- Millard Winston Wester, Jr.....Henderson, N. C.  
*Davidson College;*  
*N. C. State College.*
- Robert Lawrence Wolf.....Brooklyn, N. Y.  
*Duke University.*
- Henry Livingston Wright, Jr.....Mobile, Ala.  
*Alabama Polytechnic Institute;*  
*Ball State Teachers College;*  
*Spring Hill College.*
- Robert Ulrich Young.....Swannanoa, N. C.  
*Duke University.*

## SECOND YEAR

- Roy Augusta Agner, Jr.....Spencer, N. C.  
*Lenoir-Rhyne College;*  
*Washington University;*  
*Catawba College.*
- Charles Newton Austin.....Charleston, W. Va.  
*West Virginia University;*  
*Duke University.*
- James Howard Austin.....Valencia, Pa.  
*Randolph-Macon Academy;*  
*Duke University;*  
*University of Pittsburgh.*
- William Sterling Bell.....Austin, Texas  
*Texas University;*  
*Schreiner Institute;*  
*Texas Christian University.*
- Willis Berton Blue.....Robards, Ky.  
*David Lipscomb College;*  
*Vanderbilt University;*  
*Duke University.*



- Laurena Park Booker.....Greensboro, N. C.  
*Woman's College of the University of North Carolina.*
- Julian Stanley Brock.....Rocky Mount, N. C.  
*University of North Carolina.*
- George Oscar Chase.....Millinocket, Maine  
*University of Maine;*  
*Duke University.*
- Deborah Ferne Reed Coggins.....Tampa, Fla.  
*Florida State College for Women;*  
*University of Washington;*  
*University of Tampa.*
- Wilmer Jesse Coggins, Jr.....Madison, Fla.  
*Georgia Military Academy;*  
*Duke University.*
- Blair Pickens Coleman.....Wichita Falls, Texas  
*Woodberry Forest School;*  
*The Rice Institute.*
- Raymond Everett Conover.....Neptune, N. J.  
*Army Air Forces Pilot Training Schools;*  
*Baylor University.*
- Paul Huie Cook.....Union Grove, N. C.  
*Pfeiffer Junior College;*  
*Berry College;*  
*Duke University.*
- James Abram Cranford, Jr.....Jacksonville, Fla.  
*Washington and Lee University.*
- Thomas Edwin Curtis.....Miami, Okla.  
*Oklahoma University;*  
*Southwestern University;*  
*Oklahoma University.*
- Thomas Manning Daniel.....Oxford, N. C.  
*Louisburg College;*  
*Duke University.*
- James Edwin Dimmette.....Laurel Hill, N. C.  
*High Point College;*  
*University of Texas;*  
*Duke University.*
- David Ewing Drake.....Knoxville, Tenn.  
*Duke University.*
- John Garlick Easterling.....Rocky Mount, N. C.  
*Duke University;*  
*Guilford College;*  
*Cornell University.*
- Marvin Franklin Engel.....Atlantic City, N. J.  
*Duke University.*
- Eugene Goldsmith Evans, Jr.....Pendleton, S. C.  
*Clemson College;*  
*Newberry College.*
- Chester Walter Fink.....Durham, N. C.  
*Duke University.*
- Thomas Leonard Gorsuch.....Baltimore, Md.  
*Duke University.*
- Paul Green, Jr.....Thomasville, N. C.  
*Duke University.*
- Earl Haltiwanger, Jr.....Lake City, Fla.  
*The Citadel;*  
*Emory University.*

- Kenneth Frederick Hanes.....East Liverpool, Ohio  
*Geneva College;*  
*Mt. Union College.*
- Charles Andrew Hanson.....Geneva, Ill.  
*University of Illinois;*  
*University of Michigan;*  
*Duke University.*
- Robert LeRoy Hershberger.....La Porte, Texas  
*Sam Houston State Teachers College;*  
*University of Texas.*
- Rudger Puckett Hiatt.....Mesa, Ariz.  
*Brigham Young University;*  
*University of New Mexico;*  
*University of Arizona.*
- Malvern Carlyle Holland.....Simpsonville, S. C.  
*University of South Carolina;*  
*North Georgia College;*  
*Rutgers University.*
- Edward Irving Honig.....New York, N. Y.  
*University of Buffalo;*  
*College of William and Mary.*
- Francis Gregg Horne.....Sumter, S. C.  
*The Citadel;*  
*Duke University.*
- Charles Ernest Inman.....Fairmont, N. C.  
*Wake Forest College;*  
*Duke University.*
- Beverly Joy Neely Jackson.....Atlanta, Ga.  
*Duke University.*
- Murray Threadgill Jackson, Jr.....Kannapolis, N. C.  
*Davidson College;*  
*Catawba College;*  
*Duke University.*
- Carl Alphons Jaeger.....Greenwich, Conn.  
*Mercersburg Academy;*  
*Cornell University;*  
*St. Vincents College.*
- David Hale Johnston.....Roper, N. C.  
*North Carolina State College;*  
*Duke University.*
- Robert Franklin Kandel.....Louisville, Ohio  
*Columbia University Midshipman School;*  
*Duke University.*
- David Armistead Lockhart.....St. Helena's Island, S. C.  
*University of the South;*  
*Tulane University.*
- John Hinkle Luzadre.....Sewickley, Pa.  
*University of Pittsburgh.*
- John Peter Mandanis.....Spartanburg, S. C.  
*University of Athens;*  
*Wofford College.*
- Jack Fitch Mangum.....Hamlet, N. C.  
*The Citadel;*  
*Duke University.*
- Susan Routh McFadyen.....Greensboro, N. C.  
*Woman's College of the University of North Carolina.*
- Harry Hand McGee, Jr.....Savannah, Ga.  
*Ursinus College;*  
*Duke University.*

- Andrés Tarcisio Melero.....San Juan, P. R.  
*University of Puerto Rico;*  
*Duke University.*
- Joanne Elizabeth Mertz.....Logansport, Ind.  
*Purdue University.*
- Nicholas Vladimir Parapid.....Salisbury, N. C.  
*Sacramento Junior College;*  
*Catawba College.*
- Charles Danny Pruett.....Bluefield, Va.  
*Emory and Henry College;*  
*Duke University.*
- John Elliott Ragland.....Orange, Calif.  
*Princeton University.*
- Luis Enrique Remus, Jr.....Santuree, P. R.  
*The Citadel.*
- David Hyatt Reynolds.....Dayton, Ohio  
*Ohio State University.*
- Alonza Douglas Rice.....Charleston, W. Va.  
*Northwestern University;*  
*Concord College;*  
*West Virginia University;*  
*Duke University.*
- Evelyn D. Schmidt.....N. Plainfield, N. J.  
*Duke University.*
- Ernest Edgar Schnoor.....Walnut Creek, Calif.  
*University of California.*
- Alfred Mayer Sellers.....Philadelphia, Pa.  
*Temple University.*
- Donald Yeoman Shankroff.....Brooklyn, N. Y.  
*Princeton University.*
- Jesse Graham Smith, Jr.....Asheboro, N. C.  
*Duke University.*
- Gordon Douglas Stanley.....Sanford, Fla.  
*University of Florida.*
- John William Sullenberger.....Tallahassee, Fla.  
*University of Tennessee;*  
*Carson-Newman College;*  
*Duke University.*
- Russell Spaldon Underwood.....Waynesville, N. C.  
*University of Notre Dame.*
- William Freeman Walker.....Hazlehurst, Ga.  
*Duke University.*
- Paul Allen Walters, Jr.....Durham, N. C.  
*University of North Carolina.*
- Joseph Benjamin Warren.....Lenoir, N. C.  
*Duke University.*
- James Edward Welch.....Suffolk, Va.  
*Virginia Polytechnic Institute;*  
*Duke University.*
- Ben Terry White, II.....Cadiz, Ky.  
*Western Kentucky Teachers College;*  
*University of Kentucky.*
- Edward Steel Whitesides.....Gastonia, N. C.  
*Davidson College;*  
*Michigan State Normal.*

Thaddeus Bryan Wester.....	Henderson, N. C.
<i>North Carolina State College of A. &amp; E.;</i>	
<i>Carson-Newman College;</i>	
<i>Duke University.</i>	
Harold Lee Williams.....	Greenville, N. C.
<i>Duke University.</i>	
Louis Howard Williams.....	Greenville, N. C.
<i>Duke University.</i>	
Robert Terrell Wingfield.....	Lynchburg, Va.
<i>Virginia Military Institute;</i>	
<i>Duke University.</i>	

## THIRD YEAR

Kitridge Anderson.....	Austin, Texas
<i>University of Texas.</i>	
Henry Franklin Barnes.....	Elm City, N. C.
<i>Atlantic Christian College;</i>	
<i>University of North Carolina;</i>	
<i>Washington Square College, N. Y. U.</i>	
Reginald Victor Bennett, Jr.....	Bowling Green, Ky.
<i>Duke University.</i>	
James Burke Berry, Jr.....	Latta, S. C.
<i>The Citadel.</i>	
Alice Eugenia Black-Schaffer.....	Durham, N. C.
<i>Barnard College;</i>	
<i>University of Richmond;</i>	
<i>Duke University.</i>	
John Ronald Blake, Jr.....	Washington, D. C.
<i>Duke University.</i>	
Saul Blatman.....	Providence, R. I.
<i>Brown University.</i>	
Robert Isaac Bosman.....	Durham, N. C.
<i>College of William and Mary;</i>	
<i>University of Virginia;</i>	
<i>Johns Hopkins School of Hygiene.</i>	
William Lee Boucher.....	Salt Lake City, Utah
<i>University of Utah.</i>	
John David Bridgers.....	Greenville, N. C.
<i>East Carolina Teachers College.</i>	
James Frederick Bruce.....	Opelika, Ala.
<i>Alabama Polytechnic Institute.</i>	
Lachlan Leigh Campbell.....	Newport News, Va.
<i>Duke University.</i>	
Wilma Jeanne Canada.....	Williamson, W. Va.
<i>University of Kentucky.</i>	
Joseph Alphonse Conroy, Jr.....	New York, N. Y.
<i>Duke University.</i>	
John Samuel Cook, Jr.....	Durham, N. C.
<i>Davidson College;</i>	
<i>University of North Carolina;</i>	
<i>Temple University.</i>	
Gerald Rice Cooper.....	Durham, N. C.
<i>Duke University.</i>	
Alpheus McCullen Covington.....	Rockingham, N. C.
<i>Duke University;</i>	
<i>Wofford College.</i>	

- \*John Nathaniel Crowder.....High Point, N. C.  
*Duke University.*
- Frederick William Dick.....Brookneal, Va.  
*Meridian Junior College;*  
*Duke University.*
- Howard McRoy DuBose.....Tampa, Fla.  
*Florida Southern College;*  
*University of Florida.*
- Fred Wilson Ellis.....Heath Springs, S. C.  
*University of South Carolina;*  
*University of Florida;*  
*University of Maryland;*  
*University of North Carolina.*
- Thomas Edmunds Fitz.....Reidsville, N. C.  
*University of North Carolina.*
- Louis Augustus Fraysse, III.....Charleston, S. C.  
*College of Charleston;*  
*University of South Carolina.*
- Norman Hessen Garrett, Jr.....Mount Kisco, N. Y.  
*Duke University.*
- Nicholas George Georgiade.....Jamaica, N. Y.  
*Fordham University;*  
*Columbia University.*
- John Patterson Greene.....Jacksonville, Fla.  
*University of Florida;*  
*Duke University.*
- Rufus Roberts Hambright.....Grover, N. C.  
*Mars Hill Junior College;*  
*Duke University.*
- Edward Lee Hamilton.....Springfield, Mass.  
*Holy Cross College.*
- Mervyn Ray Hamlin.....Stockton, Calif.  
*Stanford University.*
- James Allen Harris.....Cincinnati, Ohio  
*University of Dayton;*  
*Duke University.*
- Tyndall Peacock Harris.....Jacksonville, Fla.  
*University of North Carolina.*
- Edwin Peelle Hiatt.....Wilmington, Ohio  
*Wilmington College;*  
*Haverford College;*  
*Duke University;*  
*University of Maryland;*  
*University of North Carolina.*
- Albert Burney Huff.....Rome, Ga.  
*Georgia School of Technology;*  
*University of Georgia School of Pharmacy.*
- Murray B. Hunter.....Brooklyn, N. Y.  
*Brooklyn College;*  
*State University of Iowa.*
- Monroe Ruework Jennings.....Beckley, W. Va.  
*Emory and Henry College;*  
*Concord State Teachers College;*  
*Berea College;*  
*Peabody College.*
- Reginald Hall Johnson, Jr.....Pittsburgh, Pa.  
*University of Pittsburgh.*

\* On leave of absence.



- Vincent Anthony Joy.....New York, N. Y.  
*Fordham University.*
- Thomas Cleveland Kerns, Jr.....Durham, N. C.  
*University of North Carolina.*
- John Dudley Keye, Jr.....Los Angeles, Calif.  
*Duke University.*
- Grey Bryan Kornegay.....Mt. Olive, N. C.  
*University of North Carolina School of Pharmacy;*  
*University of Minnesota.*
- Nicholas Charles Leone.....Oakland, Calif.  
*University of California College of Pharmacy;*  
*Harvard University School of Public Health;*  
*University of California;*  
*Yale University.*
- John Mitchell Lesesne.....Charleston, S. C.  
*The Citadel;*  
*The General Theological Seminary.*
- Charles Pell Lewis, Jr.....St. Albans, W. V.  
*Washington and Lee University.*
- Leonard Abram Lewis.....Miami, Fla.  
*University of Florida;*  
*Alabama Polytechnic Institute.*
- William Edwin Magee.....Columbia, S. C.  
*Duke University.*
- Daniel Atlee Mairs.....Charleston, W. Va.  
*Duke University.*
- Glenn Estes Mathisen.....Norfolk, Va.  
*William and Mary College;*  
*Duke University.*
- Dean McCandless.....St. John, Kan.  
*Kansas State College of Agriculture and Applied Sciences.*
- Buchanan McMaster McKay.....Columbia, S. C.  
*University of South Carolina.*
- Henry Davis Messer.....Madison, Fla.  
*Duke University.*
- David Critcherson Miller.....New Market, N. H.  
*Antioch College;*  
*University of Chicago;*  
*Northwestern University.*
- Herchel Victor Murdaugh, Jr.....Orangeburg, S. C.  
*The Baylor School;*  
*The Citadel.*
- Ernest Tittle Newell.....Waynesville, N. C.  
*Duke University.*
- Simmons Isler Patrick.....Washington, N. C.  
*Wake Forest College.*
- \*William John Perry.....Grass Valley, Calif.  
*Sacramento Junior College;*  
*University of California;*  
*American University.*
- William Lawson Richardson.....Johnson City, Tenn.  
*East Tennessee State College.*
- Peter Richter.....New York, N.Y.  
*Yale University.*
- William Dennis Rippy.....Gibsonville, N. C.  
*Elon College.*

\* On leave of absence.

- Douglas Pendleton Rucker.....Richmond, Va.  
*University of Virginia;*  
*Randolph-Macon College.*
- Philip Everitt Russell.....Glencoe, Ill.  
*Duke University;*  
*Northwestern University.*
- Leonard Herbert Schuyler.....New York, N. Y.  
*City College of New York.*
- Thomas Duncan Sellers.....Norfolk, Va.  
*College of William and Mary;*  
*Duke University;*  
*Johns Hopkins.*
- Charles Floyd Seymour.....Panama City, Fla.  
*University of Florida.*
- Gerald Coburn Shingleton.....Wilson, N. C.  
*Duke University;*  
*Atlantic Christian College.*
- Dave Harvey Smeltzer.....Youngstown, Ohio  
*Duke University.*
- Robert Maxwell Stewart.....Gainesville, Fla.  
*University of Florida.*
- Margaret Patricia Sullivan.....Kerrville, Texas  
*Schreiner Institute;*  
*Rice Institute.*
- John Leslie Vogel.....Louisville, Ky.  
*Duke University.*
- Charles David Williams, Jr.....Spartanburg, S. C.  
*Wofford College.*
- John William Worthington, Jr.....San Diego, Calif.  
*Franklin and Marshall College.*
- Harry Hill Youngs, Jr.....Grantwood, N. J.  
*Rutgers University.*

SENIOR YEAR

- Robert Shields Abernathy.....Gastonia, N. C.  
*Davidson College;*  
*Massachusetts Institute of Technology;*  
*Yale University.*
- Henry Clifford Alexander, Jr.....Charlotte, N. C.  
*Duke University.*
- Kenneth Eugene Ambrose.....Oblong, Ill.  
*Duke University.*
- James Bertram Anderson.....Mesa, Ariz.  
*Arizona State;*  
*University of Arizona.*
- John Powell Anderson.....Lynchburg, Va.  
*Duke University;*  
*West Virginia University.*
- Carey N. Barry.....Clearwater, Fla.  
*University of Florida.*
- William Clement Battle.....State Park, S. C.  
*University of South Carolina;*  
*Presbyterian College;*  
*Duke University.*
- George Andrew Bishopric.....Spray, N. C.  
*Duke University.*

- Joe L. Bonnet.....Orange, N. J.  
*Duke University.*
- Hugh Page Brawner, Jr.....Washington, D. C.  
*Duke University.*
- Carolyn Coker.....Hartsville, S. C.  
*Mount Holyoke College.*
- Eugene Jones Cornett.....Salem, Va.  
*Virginia Polytechnic Institute;  
Emory and Henry College.*
- James Carroll Crutcher.....Dover, N. J.  
*Duke University.*
- Daniel William Davis, Jr.....Columbia, S. C.  
*The Citadel.*
- Wayne Edward Davis.....High Point, N. C.  
*Duke University.*
- Richard Thomas Farrior.....Tampa, Fla.  
*University of Florida;  
University of Miami.*
- Benjamin Hugh Flowe.....Concord, N. C.  
*Duke University.*
- Ann Fouch.....Orrville, Ohio  
*Duke University.*
- William Rush Dunton Furst.....Catonsville, Md.  
*Duke University.*
- John William Geibel, Jr.....Mansfield, Ohio  
*College of Wooster;  
Clemson College;  
University of Maryland.*
- William Harold Gentry.....Roxboro, N. C.  
*Wake Forest College;  
Duke University.*
- James Patrick Grattan.....Medford, Okla.  
*Oklahoma A. and M.;  
Vanderbilt University.*
- Gloria Lee Grimes.....Charlotte, N. C.  
*Duke University.*
- Robert Lawrence Hallet.....Springfield, Mass.  
*University of Vermont;  
University of Maryland.*
- Louis Elmore Harman, Jr.....Russellville, Ohio  
*Miami University;  
Mississippi State;  
Vanderbilt University.*
- Robert Lind Isham.....Nashville, Tenn.  
*Vanderbilt University;  
University of North Carolina.*
- Robert Franklin Kibler.....Durham, N. C.  
*Duke University.*
- John Hoskins Kier.....Lexington, Miss.  
*Southwestern College.*
- Edward Parsons Kingsbury.....Penacook, N. H.  
*University of New Hampshire;  
University of Mississippi;  
University of North Carolina.*
- Melvin Arnold Krugly.....Chicago, Ill.  
*University of Illinois;  
The Ohio State University.*

- Joseph Laesser Kuhn.....Buffalo, N. Y.  
*Colgate University.*
- Ramon Linus Lange.....Superior, Wis.  
*Superior State Teachers College;  
Vanderbilt University.*
- Samuel George Latty.....Durham, N. C.  
*University of North Carolina.*
- Atala Jane Scudder Davison Levinthal.....Richmond, Calif.  
*Barnard College;  
Duke University;  
Swarthmore College.*
- Charles Cho-sung Ling.....Shanghai, China  
*St. John's University;  
West China Union University.*
- Lawrence Robert Loftus.....Toledo, Ohio  
*Vanderbilt University;  
University of Michigan;  
Mississippi State College.*
- William McCall, Jr.....Winston-Salem, N. C.  
*Duke University.*
- Walter Rutledge Miller.....Johnson City, Tenn.  
*Davidson College.*
- James LeRoy Morgan.....Norfolk, Va.  
*Duke University.*
- Aldrich Holt Northup.....Pensacola, Fla.  
*Duke University.*
- Suydam Osterhout.....Massapequa, N. Y.  
*Princeton University.*
- John Reagan Overman.....Marion, Ind.  
*Duke University;  
Washington and Jefferson College;  
University of Maryland;  
George Washington University.*
- Ernest Benjamin Page, Jr.....Raleigh, N. C.  
*Duke University.*
- Nine Mae Musselman Page.....Bethlehem, Pa.  
*Duke University.*
- Jack Rodney Rabenberg.....Wakefield, Nebr.  
*Wheaton College;  
Duke University.*
- Gilbert Anthony Rannick.....Kenosha, Wis.  
*University of Wisconsin;  
University of Detroit;  
The Ohio State University.*
- Emmanuel Raphael Riff.....Chicago, Ill.  
*University of Illinois;  
The Ohio State University.*
- Betty Sams Roof.....Columbia, S. C.  
*University of South Carolina.*
- Dana Ray Schmidt.....Marion, Ohio  
*The Ohio State University;  
Rose Polytechnic Institute;  
University of Michigan.*
- Harold Warren Schnaper.....Dorchester, Mass  
*Harvard University;  
Louisiana State University.*

- Lawrence Herbert Schwartz.....Detroit, Mich.  
*Wayne University;*  
*University of Michigan;*  
*Hope College;*  
*University of Illinois.*
- James Lee Scott, Jr.....Marietta, Ga.  
*Washington and Lee;*  
*Michigan State Normal College;*  
*University of Michigan.*
- James Herbert Shipp.....Houghton, La.  
*Michigan State University;*  
*University of Michigan.*
- Rosalind Gower Smith.....Durham, N. C.  
*Duke University.*
- Earl Norman Solon.....Chicago, Ill.  
*University of Chicago;*  
*University of Michigan.*
- Antoinette Baca Titchener.....Earlington, Ky.  
*Duke University;*  
*University of North Carolina;*  
*Vassar College.*
- James Lamton Titchener.....Binghamton, N. Y.  
*Princeton University;*  
*The Citadel;*  
*University of Maryland.*
- James Kenneth Tompkins.....Endicott, N. Y.  
*Duke University.*
- John Francis Tracey.....Kansas City, Mo.  
*University of Mississippi.*
- Evelyn Gray Vail.....Pikeville, N. C.  
*Duke University.*
- Joseph Warshaw.....Brooklyn, N. Y.  
*Louisiana State University.*
- Carl Holmes Weatherly, Jr.....Leaksville, N. C.  
*Wake Forest College;*  
*Duke University.*
- John Winkle Wilson, Jr.....Chattanooga, Tenn.  
*University of Chattanooga;*  
*Duke University.*
- Erwin Harold Zimmerman.....Charlotte, N. C.  
*Harvard University;*  
*Duke University;*  
*University of North Carolina.*

## SCHOOL OF NURSING

## SENIOR CLASS

- Anderson, June Elizabeth.....Vinton, Va.  
*Madison College.*
- Ashmore, Newlin.....Crawfordville, Fla.  
*Florida State College for Women.*
- Atkinson, Miriam Evelyn.....Mullins, S. C.  
*Mars Hill College;*  
*Coker College.*
- Auter, June Madeline.....Louisville, Ky.  
*University of Louisville.*
- Ballard, Frances Whitley.....Clinton, N. C.  
*East Carolina Teachers College;*  
*Peace College.*



Barnhart, Betty.....	Roanoke, Va. <i>Roanoke College.</i>
Bennett, Jean Elizabeth.....	Miami, Fla. <i>Florida State College for Women.</i>
Bland, Myra Virginia.....	Kinston, N. C. <i>Woman's College, University of North Carolina.</i>
Bowers, Elizabeth.....	Olanta, S. C. <i>Winthrop College.</i>
Bray, Ida Paulette.....	Nathalie, Va. <i>Madison College.</i>
Burroughs, Harriet Novita.....	Navy Yard, S. C. <i>Lander College.</i>
Carson, Lenna Ilene.....	Bluefield, W. Va. <i>Madison College.</i>
Chesson, Peggy Eloise.....	Elizabeth City, N. C. <i>Mars Hill College.</i>
Clark, Mary Elizabeth.....	Johnston, S. C. <i>Winthrop College.</i>
Darden, Margaret Elizabeth.....	Broadway, N. C. <i>Campbell College.</i>
Davis, Ruth Ermine.....	Durham, N. C. <i>Elon College.</i>
Deans, Agnes June.....	Fountain City, Tenn. <i>University of Tennessee.</i>
Farrar, Helen Lorraine.....	Pittsboro, N. C. <i>Louisburg College.</i>
Flake, Mary Eva.....	Charlotte, N. C. <i>Queens College.</i>
Franklin, Helen Bryson.....	Asheville, N. C. <i>The Woman's College, Duke University.</i>
Franklin, Virginia Ann.....	Lynchburg, Va. <i>Madison College.</i>
Garland, Zeta.....	Jonesboro, Tenn. <i>East Tennessee State College.</i>
Hamm, Wanda Jean.....	West Palm Beach, Fla. <i>Palm Beach Junior College.</i>
Honeycutt, Annie Rebecca.....	Salisbury, N. C. <i>Catawba College.</i>
Hubbard, Phyllis.....	Chatham, Va. <i>Madison College.</i>
Hunt, Barbara Seymour.....	Mountville, S. C. <i>Winthrop College.</i>
Kerce, Mary Ellen.....	Mulberry, Fla. <i>Florida State College for Women.</i>
Loflin, Doris Ellen.....	Greensboro, N. C. <i>Woman's College, University of North Carolina.</i>
McNeill, Rebecca Catheline.....	Eagle Springs, N. C. <i>Pfeiffer Junior College.</i>
Mitchell, Margaret Marie.....	East Lansing, Mich. <i>University of Minnesota; Michigan State College.</i>
Moncure, Frances Daniel.....	Towson, Md. <i>Radford College.</i>

- Moshoures, Lula Dorothy.....Myrtle Beach, S. C.  
*Coker College.*
- Murray, Mary J. Alexander.....Pensacola, Fla.  
*Queens College;*  
*Woman's College, University of North Carolina.*
- Neighbour, Mary Frances.....Spartanburg, S. C.  
*Winthrop College.*
- Osborne, Edith Irene.....Edenton, N. C.  
*Campbell College.*
- Pepper, Ella Elizabeth.....Easley, S. C.  
*Furman University.*
- Plyler, Helen K.....Chester, S. C.  
*Winthrop College.*
- Scott, Helen Arnold.....Lawrenceville, Va.  
*Elon College.*
- Sites, Patricia Elizabeth.....Upper Tract, W. Va.  
*Madison College.*
- Smith, Mildred Stucker.....Chester, S. C.  
*Furman University.*
- Solomon, Jean.....Wilmington, N. C.  
*Richmond Professional Institute of the College of William and Mary;*  
*University of North Carolina.*
- Strickler, Vivian Lorrain.....Staunton, Va.  
*Madison College.*
- Swafford, Peggy Bernice.....Knoxville, Tenn.  
*University of Tennessee.*
- Turbeville, Marie Inez.....Mullins, S. C.  
*Winthrop College.*
- Vail, Eleanor Glenn.....Pikeville, N. C.  
*Peace College;*  
*Wake Forest College.*
- Van Steenberg, Neal.....Greenwich, Conn.  
*The Woman's College, Duke University.*
- Wall, Bettye.....Chester, S. C.  
*Winthrop College.*
- Wright, Mary Jane.....Salem, Va.  
*Ferrum Junior College;*  
*Roanoke College.*

## JUNIOR CLASS

- Anderson, Carol.....Princeton, W. Va.  
*Concord College.*
- Anderson, Mary Ella.....Woodruff, S. C.  
*Berry College.*
- Arey, Margaret.....Harrisonburg, Va.  
*University of Richmond.*
- Baker, Betty H.....Carthage, N. C.  
*Elon College.*
- Beacham, Marian B.....Savannah, Ga.  
*Armstrong Junior College.*
- Black, Alice E.....Johnson City, Tenn.  
*East Tennessee State College.*
- Bray, Dorothy E.....Elizabeth City, N. C.  
*Elon College.*

Burnham, Carol Jean.....	Durham, N. C.
<i>The Woman's College, Duke University.</i>	
Cary, Barbara L.....	Poughkeepsie, N. Y.
<i>Penn Hall Junior College.</i>	
Chandler, Polly L.....	Salisbury, N. C.
<i>Woman's College, University of North Carolina.</i>	
Chaney, Gloria E.....	Martinsville, Va.
<i>Richmond Professional Institute of the College of William and Mary.</i>	
Chappell, Johanna M.....	Jacksonville, Fla.
<i>John B. Stetson University.</i>	
Coleman, Athelle M.....	Lillington, N. C.
<i>Campbell College.</i>	
Cornwell, Polly M.....	Chester, S. C.
<i>Erskine College.</i>	
Croom, Bobbie Jane.....	Mullins, S. C.
<i>Winthrop College.</i>	
Farrar, Catherine L.....	South Hill, Va.
<i>Radford College.</i>	
Gatewood, Frances W.....	Danville, Va.
<i>Stratford College.</i>	
Gatlin, Jean M.....	Bayboro, N. C.
<i>St. Mary's College.</i>	
Hamlen, Nancy A.....	New London, Conn.
<i>The Woman's College, Duke University.</i>	
Hickman, Alice.....	Loris, S. C.
<i>Winthrop College.</i>	
Howard, Marolyn.....	Snyder, N. Y.
<i>University of Buffalo.</i>	
Johnson, Mary A.....	Henderson, N. C.
<i>Woman's College, University of North Carolina.</i>	
Lewis, Mary J.....	Wilmington, N. C.
<i>North Carolina College Centers.</i>	
Lowder, Hilda G.....	Norwood, N. C.
<i>Wake Forest College.</i>	
Mason, Mary J.....	Freehold, N. J.
<i>St. Mary's Junior College.</i>	
Murray, Margaret B.....	Covington, Va.
<i>Farmville State Teachers College.</i>	
Olive, Hilda.....	Durham, N. C.
<i>Mars Hill Junior College.</i>	
Perkins, Mary Faye.....	Pikeville, N. C.
<i>Meredith College.</i>	
Perkins, Nell Rose.....	Clintwood, Va.
<i>Milligan College.</i>	
Pierce, Mamie V.....	Apex, N. C.
<i>Flora Macdonald College.</i>	
Powell, Roberta A.....	Raleigh, N. C.
<i>Catholic University of America.</i>	
Purkall, Maude E.....	Augusta, Ga.
<i>Junior College of Augusta.</i>	
Rainey, Virginia D.....	Newport News, Va.
<i>Madison College.</i>	

Romines, Ethel L.....	Washington, D. C. <i>Woman's College, University of North Carolina.</i>
Rutherford, Ann M.....	Charleston, W. Va. <i>University of Cincinnati.</i>
Sears, Laura A.....	Norfolk, Va. <i>Madison College.</i>
Thomas, Corinna.....	Ferrum, Va. <i>Radford College.</i>
Thompson, Winifred.....	Chapel Hill, N. C. <i>Woman's College, University of North Carolina.</i>
Thornton, Mary Ruth.....	Knoxville, Tenn. <i>Carson-Newman College.</i>
Van Cleve, Patricia.....	Honolulu, Hawaii <i>Stockton Junior College.</i>
Winslow, Esther E.....	Belvidere, N. C. <i>Guilford College.</i>
Wylie, Phyllis M.....	Spindale, N. C. <i>Woman's College, University of North Carolina.</i>
Yelverton, Doris Vail.....	Pikeville, N. C. <i>Meredith College.</i>

## FRESHMAN CLASS

Allen, Margaret J.....	E. Lansing, Mich. <i>Michigan State College.</i>
Bartlett, Lorene M.....	Forestville, N. Y. <i>Fredonia State Teachers College.</i>
Bonniville, Roxie A.....	Norfolk, Va. <i>Meredith College.</i>
Cato, Alma S.....	Monetta, S. C. <i>Winthrop College.</i>
Coleman, Betty J.....	Winston-Salem, N. C. <i>Mars Hill College.</i>
Coleman, Diane.....	Atlantic Beach, Fla. <i>Montreat College; Jacksonville Junior College.</i>
Coleman, Norma L.....	Winston-Salem, N. C. <i>Mars Hill College.</i>
Cook, Annie L.....	Newton, N. C.
Cress, Vivian E.....	Concord, N. C. <i>Pfeiffer Junior College.</i>
Erskine, Betty.....	Anderson, N. C. <i>Wake Forest College.</i>
Everhart, Lois.....	Thomasville, N. C. <i>Oklahoma Baptist University.</i>
Ewell, Marjorie A.....	Gulfport, Miss. <i>Maryville College.</i>
Herndon, Mary Y.....	Durham, N. C. <i>Greensboro College.</i>
Hiltzheimer, Jane.....	Pulaski, Va. <i>Wesleyan College.</i>
Hughes, Martha B.....	Bartow, Fla. <i>Woman's College, Duke University.</i>
Jaeger, Margaret A.....	Knoxville, Tenn. <i>University of Tennessee.</i>

Jenkins, Lucia M.....	Charleston, S. C.
<i>Stratford Junior College.</i>	
Knipmeyer, Doris P.....	Penhook, Va.
<i>Madison College;</i>	
<i>Asbury College.</i>	
Ledford, Ethel A.....	Harrisburg, N. C.
<i>Brevard College.</i>	
Lewis, Myrtha R.....	Selbyville, Del.
<i>Catawba College.</i>	
McCall, Ruth.....	Timmons ville, S. C.
<i>Flora Macdonald College.</i>	
Mahaffee, Margaret F.....	Gaffney, S. C.
<i>Mitchell College.</i>	
Menefee, Mary Ann.....	Luray, Va.
<i>Woman's College, Duke University.</i>	
Morris, Jaqueline.....	Charleston, S. C.
<i>Winthrop College.</i>	
Muldrow, Leonora J.....	Sumter, S. C.
<i>Winthrop College.</i>	
Nicholson, Mary.....	Edgefield, S. C.
<i>Winthrop College.</i>	
Parsons, Nancy E.....	Candor, N. C.
<i>Pfeiffer Junior College.</i>	
Perkins, Carolyn M.....	Clintwood, Va.
<i>Milligan College.</i>	
Plyler, Anna C.....	Chester, S. C.
<i>Winthrop College.</i>	
Power, Frances G.....	Sumter, S. C.
<i>Winthrop College.</i>	
Rigell, Peggy J.....	Punta Gorda, Fla.
<i>Florida State University.</i>	
Scott, Jane.....	Salem, Va.
<i>Roanoke College.</i>	
Smith, Isabel J.....	Burlington, N. C.
<i>Guilford College;</i>	
<i>Wheaton College.</i>	
Snell, Anne M.....	Winston-Salem, N. C.
<i>Peace College.</i>	
Stanford, Jean E.....	Salem, Va.
<i>Roanoke College.</i>	
Stewart, Mildred L.....	Johnson City, Tenn.
<i>East Tennessee State College.</i>	
Sutherland, Dottie L.....	Cincinnati, Ohio
<i>Salem College.</i>	
Tate, Mar Jo.....	Baton Rouge, La.
<i>Louisiana State College.</i>	
Teal, Betty J.....	Pine Bluff, N. C.
<i>Greensboro College.</i>	
Tisdale, Suetta.....	Sumter, S. C.
<i>Winthrop College.</i>	
Trulove, Martha J.....	Greensboro, N. C.
<i>Mars Hill College.</i>	
Turner, Katherine.....	Rome, Ga.
<i>Alabama State College for Women.</i>	



- Walker, Ellen L.....Durham, N. C.  
*Wake Forest College.*
- Walters, Pauline J.....New Market, Tenn.  
*Maryville College.*
- Watson, Betty J.....Punta Gorda, Fla.  
*Florida State University.*
- Williams, Roberta E.....Jacksonville, Fla.  
*Florida State University.*

## SCHOOL OF FORESTRY

- \*Alvis, Richard James      Newport News, Va.      GG-107  
 B.S.F., North Carolina State College, 1948
- \*Bliss, Verne Fairbanks      Salem, Va.      Morreene Dairy Road  
 B.S., Roanoke College, 1947
- <sup>1</sup>Bramwell, Sydney Russell      Denver, Colo.      GG-123  
 B.S., University of Missouri, 1947
- \*Brigham, Lyman Henry      Burlington, Vt.      GG-319  
 B.S., University of Vermont, 1947
- \*Burns, Joe Gay      Pittsview, Ala.      HH-102  
 B.S., Alabama Polytechnic Institute, 1947
- \*Butcher, Gene Lacy      Georgetown, Ky.      906 Monmouth Ave.  
 A.B., Georgetown College, 1947
- \*\*Cairns, Frank Elmer, Jr.      Madison, Wis.      GG-107  
 B.S., Duke University, 1947
- \*Carey, Charles Major, Jr.      Colonial Beach, Va.      106 W. Geer St.  
 B.S., Virginia Polytechnic Institute, 1947
- Carmean, Willard Handy      Norristown, Pa.      901 Fifth St.  
 B.S.F., Pennsylvania State College, 1943  
 M.F., Duke University, 1947
- \*Cook, Richard Cairns      Philadelphia, Pa.      609 Vickers Ave.  
 B.S.F., Pennsylvania State College, 1948
- \*Corthell, Richard Eldon      Ashland, Ore.      2422 Huron St.  
 B.S.F., Oregon State College, 1948
- \*du Toit Deetlefs, Philippus Petrus      Clanwilliam, So. Africa      GG-315  
 B.S., University of Stellenbosch, 1948
- \*Dwyer, Walter William, Jr.      West Dennis, Mass.      HH-017  
 A.B., Columbia University, 1942
- \*East, John William      Churchville, Va.      GG-317  
 B.S., Virginia Polytechnic Institute, 1943
- \*Fitzgerald, Odie Leroy      Bernice, La.      GG-114  
 B.S., Louisiana Polytechnic Institute, 1948
- \*Haigh, William Sunday      Jacksonville, Fla.      GG-209  
 B.S., Pennsylvania State College, 1937
- \*\*\*Haliburton, William      Montreal, Que., Canada  
 B.S., University of New Brunswick, 1940      302 Anderson St.  
 M.F., Duke University, 1943
- \*\*Hawkins, William Theron      Taylors, S. C.      Camp Butner, N. C.  
 B.S., Furman University, 1948
- \*Haynes, Winfred Newman      Chattanooga, Tenn.      GG-312  
 B.S.F., University of Georgia, 1948

<sup>1</sup> Died, October 14, 1948.

\* Registered for the Master of Forestry Degree, 1949.

\*\* Registered for the Master of Forestry Degree, 1950.

\*\*\* Registered for the Doctor of Forestry Degree, 1949.

# ROLL OF STUDENTS

521

***Hofmann, Julian George	Raleigh, N. C.	GG-320
B.S., North Carolina State College, 1942		
M.S., North Carolina State College, 1947		
*Holman, Jack	Dierks, Ark.	GG-112
B.S., Louisiana State University, 1948		
*Hortin, Ross	Albion, Ill.	608 W. Chapel Hill St.
B.S., Michigan State College, 1948		
*Hunt, Francis Milton	Danville, Ky.	GG-226
B.S., Duke University, 1948		
*Johnston, James Gilbert	Birmingham, Ala.	1024 Gloria Ave.
B.S., Birmingham-Southern College, 1938		
*Kelly, Jack Edwin	Shreveport, La.	GG-114
B.S., Louisiana Polytechnic Institute, 1948		
*Kemp, Arne Kalervo	Hibbing, Minn.	1008 Green St.
B.S., University of Georgia, 1948		
*Koenig, Walter Louis	New Brunswick, N. J.	GG-124
B.S., Rutgers University, 1947		
Labyak, Leo Francis	Ontonagon, Mich.	206 Woodridge Drive
B.S.F., Michigan College of Mining and Technology, 1944		
M.F., Duke University, 1947		
**Ledford, Roy Henry	Barnardsville, N. C.	Ellis Road
B.S., Berea College, 1942		
**Lewis, Richard Porter	Chapel Hill, N. C.	GG-304
B.A., University of North Carolina, 1948		
*McClay, Thomas Alan	Sacramento, Calif.	506 Morehead Ave.
B.S., University of California, 1941		
*Marlin, Clifton Boyd	Dorsey, Miss.	1004 W. Markham Ave.
B.S., Mississippi State College, 1943		
***Marra, George Gori	Webster, N. Y.	W. Va. University
B.S., New York State College of Forestry, 1940		
M.S., New York State College of Forestry, 1942		
Miller, Ira Malcom	Morristown, N. J.	Morreene Dairy Road
B.A., Emory University, 1938		
M.F., Duke University, 1940		
*Olson, David Fredrick, Jr.	Wauwatosa, Wis.	GG-113
B.S.F., Michigan State College, 1948		
*Ordel, Arthur William, Jr.	Lexington, Va.	GG-124
B.S., Virginia Polytechnic Institute, 1948		
***Parker, Johnson	Cambridge, Mass.	GG-405
A.B., Harvard College, 1941		
M.F., Yale University, 1947		
*Perkins, Eugene George	Russellville, Ky.	GG-102
B.S., Michigan State College, 1948		
**Pfeiffer, Jack Russell	Denver, Colo.	Route 2, Box 58, Durham, N. C.
B.S., Colorado A. & M. College, 1947		
*Rogers, John Groe	Oxford, Mass.	GG-320
A.B., Dartmouth College, 1947		
*Slade, Russell Stewart	Newark, N. J.	HH-102
B.S., Rutgers University, 1948		
*Smith, John David	New Glasgow, Va.	108 E. Markham Ave.
B.S., Virginia Polytechnic Institute, 1943		

\* Registered for the Master of Forestry Degree, 1949.

\*\* Registered for the Master of Forestry Degree, 1950.

\*\*\* Registered for the Doctor of Forestry Degree, 1949.

Smith, Richard Chandler	St. Paul, Minn.	2402 Guess Road
B.S., University of Minnesota, 1937		
M.F., Duke University, 1947		
**Sprague, Edward Dubois	Lynn, Mass.	FF-316
B.S., University of Massachusetts, 1948		
*Sutton, Richard Francis	Winchester, Va.	801 North St.
B.S., Virginia Polytechnic Institute, 1948		
**Thomasson, Gerald Ste. Gemme	Columbia, Mo.	GG-123
B.S., University of Missouri, 1948		
<sup>2</sup> Thompson, George Arnold	Lynchburg, Va.	818 Wilkerson Ave.
A.B., Duke University, 1948		
*Tyler, John Thorpe	Canterbury, Conn.	GG-123
A.B., Kenyon College, 1942		
*Wagoner, Eddie Raymond	Louisville, Ky.	715 Broad St.
B.S.F., University of Georgia, 1941		
*Warner, John Robinson	Walkersville, Md.	1400 Leon St.
B.S., Duke University, 1946		
*Waters, William Eugene	Mount Vernon, N. Y.	1014 Lamond Ave.
B.S., New York State College of Forestry, 1948		
<sup>3</sup> Weaver, Robert Lee	Upper Darby, Pa.	GG-118
A.B., Duke University, 1945		
*Wenger, Karl	Durham, N. C.	2510 Shenandoah Ave.
B.S., University of Maine, 1939		
*Woodbridge, Earl Byron	Tamaqua, Pa.	GG-118
A.B., Duke University, 1947		
*Worsham, Jesse Norman	Gretna, Va.	2305 Prince St.
Virginia Polytechnic Institute, 1941		
Wu, Chung Iwen	Feng-chiao, Chekiang, China	HH-104
B.S., University of Nanking, 1941		
M.F., Yale School of Forestry, 1947		
*Zak, Bratislav	Pittsburgh, Pa.	GG-304
B.S., Pennsylvania State College, 1941		

#### STUDENTS OF FORESTRY IN THE GRADUATE SCHOOL OF ARTS AND SCIENCES

Boyce, John Shaw, Jr.	New Haven, Conn.	819 Demerius St.
B.S., Yale University, 1942		
M.F., Yale University, 1948		
Knudsen, Lyle Leonard	Sioux City, Iowa	801 North St.
B.S., Morningside College, 1946		
Metz, Louis John	Crawford, Colo.	801 North St.
B.S., Michigan State College, 1942		
M.F., Duke University, 1947		
Ralston, Charles William	Miami, Fla.	2123 Sprunt St.
B.S., Colorado State College, 1942		
M.F., Duke University, 1947		

#### ACADEMIC-FORESTRY SENIORS IN THE SCHOOL OF FORESTRY

Campbell, Craig Carol	University, N. C.	D-404
Evans, Gerald Wilbert	Connellsville, Pa.	E-404
Jones, Edward Earl	Durham, N. C.	116 W. Seeman St.
Marlow, Ernest Grant	Front Royal, Va.	P.O. Box 5198
Richeson, Raymond McGrady	Ashland, Va.	E-303
Turpin, David Howard	Bedford, Va.	Z-201

<sup>2</sup> Withdrew, December, 1948.

<sup>3</sup> Withdrew, November 22, 1948.

<sup>4</sup> Withdrew, November 20, 1948.

\* Registered for the Master of Forestry Degree, 1949.

\*\* Registered for the Master of Forestry Degree, 1950.

\*\*\* Registered for the Doctor of Forestry Degree, 1949.

## SUMMARY

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### GOVERNMENT, ADMINISTRATION, AND INSTRUCTION

Governing Board .....		36
Trustees of Duke University .....	36	
Officers of Administration .....		93
The University .....	8	
Trinity College, the Woman's College, the College of Engineering and the Schools .....	22	
Assistants in Administration .....	63	
Officers of Instruction .....		498*
Professors .....	141	
Associate Professors .....	88	
Assistant Professors .....	91	
Instructors .....	152	
Instructional Assistants .....	26**	
Staff of University Libraries .....		60
Total .....		687

### STUDENTS

Trinity College and the College of Engineering .....		5,181
(2,403 duplicates)		
January-June, 1949, Semester .....	2,491	
September, 1948-January, 1949, Semester .....	2,690	
Woman's College .....		1,147
Seniors .....	279	
Juniors .....	226	
Sophomores .....	256	
Freshmen .....	255	
Special Students .....	131	
The Graduate School of Arts and Sciences .....		715
(405 of these in regular academic year)		
The School of Law .....		291
First Year .....	137	
Second Year .....	90	
Third Year .....	48	
Graduate Students .....	10	
Unclassified .....	6	
The School of Medicine .....		279
First Year .....	76	
Second Year .....	70	
Junior Year .....	69	
Senior Year .....	64	
The School of Nursing .....		137
Hospital, general .....		238
Technicians .....	27	
Dietitians .....	9	
Physical Therapists .....	10	
Anaesthetists .....	7	
Record Librarians .....	5	
X-ray Technicians .....	4	
Interns and Residents .....	176	

\* Not including visiting members of Summer Session Faculty.

\*\* Not including Graduate Assistants, Fellows, and Scholars, some of whom meet classes.

The Divinity School .....		151
Seniors .....	43	
Middle Year .....	34	
Juniors .....	61	
Special Students .....	7	
Candidates for M.R.E. degree .....	6	
The School of Forestry .....		67
The Summer Session .....		2,487
(823 duplicates in Summer Session)		
First term, June 15-July 24 .....	1,616	
Second term, July 26-September 3 .....	871	
	<hr/>	
Deduction for names appearing more than once .....		10,693
		<hr/> 3,536
Enrollment for 12 months' period .....		7,157
Enrollment in academic year .....		5,493
(Less duplicates in Trinity College and the College of Engineering)		



## GIFTS AND BEQUESTS

Duke University derives its principal support from endowment funds and from miscellaneous gifts and grants. Permanently invested capital funds enable the University to offer to students academic and professional training at a fraction of its actual cost. The effectiveness of the University is determined to a large extent by its financial resources.

Gifts and bequests devoted to the improvement of the work of the University will be received and administered by the trustees in accordance with the desires of the donor.

*Gifts.* Any kind of property, real or personal, may be the subject of a gift and only such form as is required to pass title is necessary. If the gift consists of real property, the title will be passed by deed; if it consists of cash or unregistered bonds, the gift is consummated by delivery of the property; or if stocks, by delivery of properly endorsed stock certificates. Unless restricted, the use of gifts is at the discretion of the Board of Trustees. Usually the proceeds, conservatively invested, are added to the permanent endowment of the University. The donor may, however, restrict the use of any gift and designate definitely the objects for which it shall be used. In such cases, the transfer of property would be accomplished by a letter or other documents describing in detail the objects for which the proceeds of the gift are to be used and when accepted by the University the term or conditions set out therein become binding upon it.

*Bequests.* Bequests may be made to the University by an appropriate clause inserted in a will by codicil to a will already drawn. The following forms will serve as appropriate clauses for wills or codicils:

### General

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, and its successors forever, the sum of..... dollars (or otherwise describe the gift) for the general purposes and uses of the University at the discretion of the Board of Trustees.

### Specific

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, or its successors forever, the sum of..... dollars (or otherwise describe gift) and direct that the income therefrom shall be used for the following purposes, viz. (here describe in detail the use desired).

### Codicil

Having hereinbefore made my last Will and Testament dated..... and being of sound mind, I hereby make, publish, and declare the following codicil thereto; (here insert clause in same form as if it had been included in body of Will). Except as hereinbefore changed, I hereby ratify, confirm and republish my said last Will and Testament.



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